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www.jameco.com

# JAMECO<sup>®</sup>

ELECTRONICS

Catalog 103  
September 2010



*Creating A Solar City*





## Power Supplies & DC to DC Converters

★ Web Code: MWP

Jameco carries the full line of Mean Well's extensive product offering. Whether you need internal or external power supplies Jameco has what you are looking for. If you don't see what you need or are looking for a large quantity quote, call us at 1-800-831-4242.

|                                    |   |   |
|------------------------------------|---|---|
| <b>GS25U:</b><br>Wall Mount        | * Universal AC Input/Full Range<br>* No Load Power Consumption <0.5W                      | * 2.1mm x 5.5mm Center Positive Female Plug<br>* LED Indicator for Power On |
| <b>GS90:</b><br>Table Top          | * Universal AC Input/Full Range<br>* No Load Power Consumption <0.5W                      | * 2.5mm x 5.5mm Center Positive Female Plug<br>* LED Indicator for Power On |
| <b>PS-45:</b><br>Open Frame        | * Universal AC Input/Full Range<br>* Low Leakage Current <0.5 mA                          | * Fixed switching Frequency at 65KHz  |
| <b>RS-150:</b><br>Closed Frame     | * Withstand 5G Vibration Test<br>* Withstand 300VAC surge input for 5 seconds             | * High Operating Temperature, up to 70C<br>* Switch Selectable              |
| <b>ELN-60:</b><br>LED Enclosed     | * Suitable for LED Lighting & Moving Sign Applications<br>* Universal AC Input/Full Range | * Built in Constant Current Limiting Circuit<br>* UL1310 Class 2 Power Unit |
| <b>DR-30:</b><br>Din Rail          | * Universal AC Input/Full Range<br>* Isolation Class II                                   | * Use Din Rail (248736)<br>* LED Indicator for Power On                     |
| <b>SLW/SKE:</b><br>DC to DC Encap. | * 2:1 wide input voltage range<br>* Soft start circuit, Limiting AC Surge current         | * Universal Input Range<br>* 1000VDC I/O Isolation                          |

| Part No. | Mfr. Part No. | Output Rating (V) | Output Current (A) | Watts | Input Voltage (VAC @ Hz) | Pricing |         |         |
|----------|---------------|-------------------|--------------------|-------|--------------------------|---------|---------|---------|
|          |               |                   |                    |       |                          | 1       | 10      | 50      |
| 380156   | GS25U12-P1J   | 12                | 2.08               | 25    | 90-264 @ 47-63           | \$16.49 | \$14.95 | \$13.49 |
| 380173   | GS25U15-P1J   | 15                | 1.67               | 25    | 90-264 @ 47-63           | 16.49   | 14.95   | 13.49   |
| 2078291  | GS90A12-P1M   | 12                | 6.6                | 79.2  | 100-240 @ 50-60          | 44.49   | 41.49   | 38.95   |
| 2078338  | GS90A24-P1M   | 24                | 3.75               | 90    | 100-240 @ 50-60          | 44.49   | 41.49   | 38.95   |

| Part No. | Mfr. Part No. | Output Rating (V) | Output Current (A) | Watts | Input Voltage (VAC @ Hz)  | Pricing |         |         |
|----------|---------------|-------------------|--------------------|-------|---------------------------|---------|---------|---------|
|          |               |                   |                    |       |                           | 1       | 5       | 25      |
| 213728   | PS-45-12      | 12                | 3.7                | 44.4  | 90-264 @ 47-440           | \$15.95 | \$14.95 | \$13.95 |
| 213720   | PS-45-24      | 24                | 1.9                | 45.6  | 90-264 @ 47-440           | 15.95   | 14.95   | 13.95   |
| 323839   | RS-150-12     | 12                | 12.5               | 150   | 88-132/176-264 @ 47-63    | 41.95   | 38.95   | 35.95   |
| 323855   | RS-150-24     | 24                | 6.5                | 156   | 88-132/176-264 @ 47-63    | 41.95   | 38.95   | 35.95   |
| 2105279  | ELN-60-48     | 48                | 1.3                | 62.4  | 90-264 @ 47-63            | 33.95   | 31.95   | 29.95   |
| 2105308  | ELN-60-12     | 12                | 5                  | 60    | 90-264 @ 47-63            | 33.95   | 31.95   | 29.95   |
| 373182   | DR-30-12      | 12                | 2                  | 24    | 85-264 @ 47-63/120-370VDC | 24.95   | 22.95   | 21.49   |
| 373203   | DR-30-24      | 24                | 1.5                | 36    | 85-264 @ 47-63/120-370VDC | 24.95   | 22.95   | 21.49   |
| 216937   | SLW05B-05     | 5                 | 1                  | 5     | 18 to 36VDC               | 22.95   | 19.95   | 17.95   |
| 155708   | SKE15A-12     | 12                | 1.25               | 15    | 9 to 18VDC                | 28.95   | 25.95   | 22.95   |

Additional Mean Well products on pages 135-146

## Arduino

Arduino is an open-source physical computing platform based on a simple microcontroller board. Create interactive objects that can read inputs from a variety of switches, sensors, and computers to control lights, motors, and other physical outputs.

## Arduino Kits & Microcontroller Boards

| Part No. | Mfr. Part No. | Description   | 1       | 5       |
|----------|---------------|---|---------|---------|
| 2121105  | MKSP4         | Duemilanove, ATmega328, 14 digital I/O, 6 analog I/O, USB, ICSP, 32 KB flash                          | \$34.95 | \$32.95 |
| 2121113  | MKSP5         | Mega, ATmega1280, 54 digital I/O (14 PWM), 16 analog in, 4 UART, shield compatible                    | 64.95   | 59.95   |
| 2121121  | MSGSA         | Getting Started Kit w/ book, includes Arduino Duemilanove, no soldering required                      | 72.95   | 66.95   |
| 2121130  | MKAD7         | MotorShield Kit, control up to 4 DC motors, servos. 4 H-bridges, Arduino/motors not included          | 23.95   | 21.95   |
| 2121148  | MKGR1         | Arduino Nano, Atmega328, 14 digital I/O (6 PWM), 8 analog in, USB mini-B, .7"x 1.7"                   | 42.95   | 38.95   |
| 2121156  | MKSP8         | Electronic Brick Starter Kit, 16x2 LCD, 5 sensor/switches, LEDs, sensor chassis, Arduino not included | 58.95   | 54.95   |

Microcontrollers on page 11



## Ardweeny Microcontrollers & Breakout Board

Solarbotics has designed the smallest, handiest, breadboard friendly Arduino-compatible microcontroller using through-hole components, so it's perfect for beginners. The Ardweeny fits on the back of the included ATmega328 chip, helping to keep a very small footprint. Solder the pins and join the open-source hardware revolution. The Ardweeny requires an external USB-to-TTL FTDI-type adapter to configure and program.

- Stacks onto the back of an ATmega328 chip
- Simple to build - only 7 parts plus pins and PCB
- Features pin-13 LED and reset button
- Takes same 28-pin footprint as the microcontroller itself

- Ideal for breadboard applications
- Fully Arduino-compatible

2117341: Breakout board for FTDI FT232RL USB to serial IC, 5V or 3.3V user select

| Part No. | Description   | 1       | 5       |
|----------|---|---------|---------|
| 2117341  | Basic breakout board, FTDI 3.3/5V Arduino, USB serial 6-pin         | \$19.95 | \$18.95 |
| 2115768  | Ardweeny microcontroller kit, Arduino compatible, ATmega328, 7+ pcs | 13.95   | 13.25   |

PIC Programmers on pages 177-179



## Mindstorms NXT 2.0

Upgraded & Stronger Than Ever!

LEGO Mindstorms NXT is back and better than ever: new models, more customizable programming, and all new technologies! Mindstorms NXT 2.0 combines the versatility of the LEGO building system with an intelligent microcomputer brick and intuitive drag-and-drop programming software. The new 2.0 toolkit features everything you need to create your first robot in 30 minutes!

★ Web Code: ERK

- 32-bit microprocessor with large matrix display
- 3 interactive servo motors
- 4 input and 3 output ports
- 4 sensors: ultrasonic sensor, 2 touch sensors and color sensor
- Color sensor also functions as a lamp
- Easy-to-use software (PC & Mac) with icon-based drag-and-drop programming and 16 programming challenges
- Bluetooth & USB communication links
- Requires 6 AA batteries (not included, recommend P/N 198707 or 2112444)



| Part No. | Mfr. Part No. | No. of Pieces | Price    |
|----------|---------------|---------------|----------|
| 2082644  | 8547          | 612           | \$279.95 |

Complete Robotic selection on pages 190-191



## Variable High-Speed Rotary Tool Kit

Ideal for drilling, sanding & grinding: plastic, glass, ceramic, & metal and allows you the versatility to finish small hobby and do it yourself projects.

- Speed: 6000 ~ 32000rpm
- Motor power: 130W
- Collet capacity: 3.2mm
- 28-pc. sanding/grinding bit set
- Variable speed selector
- Weight: 2.2 lbs.



| Part No. | Cross Ref. No. | 1       | 5       |
|----------|----------------|---------|---------|
| 2118977  | GTT-514A       | \$39.95 | \$36.95 |

More Tool Kits on pages 159-162

★ Web Code: ARD



2121105

NEW  
MARKED IN PINK



2121113



2121130



2121148

The Solar Valley Micro-E Hotel, located in Dezhou City China, sits at the center of what China hopes will become the world's first true solar city. The plan is to attract clean energy companies and create the Chinese version of California's Silicon Valley.

The hotel and conference center pictured on the cover is host to the 2010 International Solar Cities Congress and what better location than in a hotel that generates 70% of its energy needs from the sun and requires just 10% of the energy of a comparable conventional building.

Based on Jameco's sales trends, we think it's clear that energy consumption is increasingly one of the significant design themes of the next decade. Jameco has seen sales of LED products, LED power supplies, and solar panels all dramatically increase in sales.

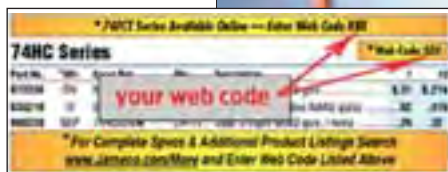


While Jameco stands ready with a range of the latest electronic component technologies to support our community of creators, we know that our future is firmly based in the past. Jameco is a company where we answer our phones, enjoy working with people and where customers have direct access to the management team. Thank you for being a part of the Jameco family.

## The Jameco Difference

### Eliminate the Search

This catalog is packed with more than 16,000 products but represents only a fraction of the products we carry on-line. Quickly jump from catalog to website using Jameco web codes for more products, more specs and the latest pricing and availability information.



### Price Selection

Others may offer more products, but only Jameco offers three pricing tiers. We are a franchised distributor for over 150 brands and carry the brand name products you expect, but we also offer our house brands at a deep discount plus factory overrun inventory at even lower prices.

**Name Brands**

**House Brands**

**Factory Overrun Inventory**

### Not Just a Number

While technically all customers have a number in our database, we work hard to win the business of every customer. That means solving problems and going the extra mile to adapt to the unique requirements of each customer by treating them like real people. If for any reason that is not happening please write us at [Management@Jameco.com](mailto:Management@Jameco.com). This mailbox is managed exclusively by the management team and you will get a prompt response.



### Low Price Guarantee

We work hard to price our products below our competitors. That said, occasionally we miss something. If you find a lower published price for stocked products, let us know and we'll beat it right down to our cost.



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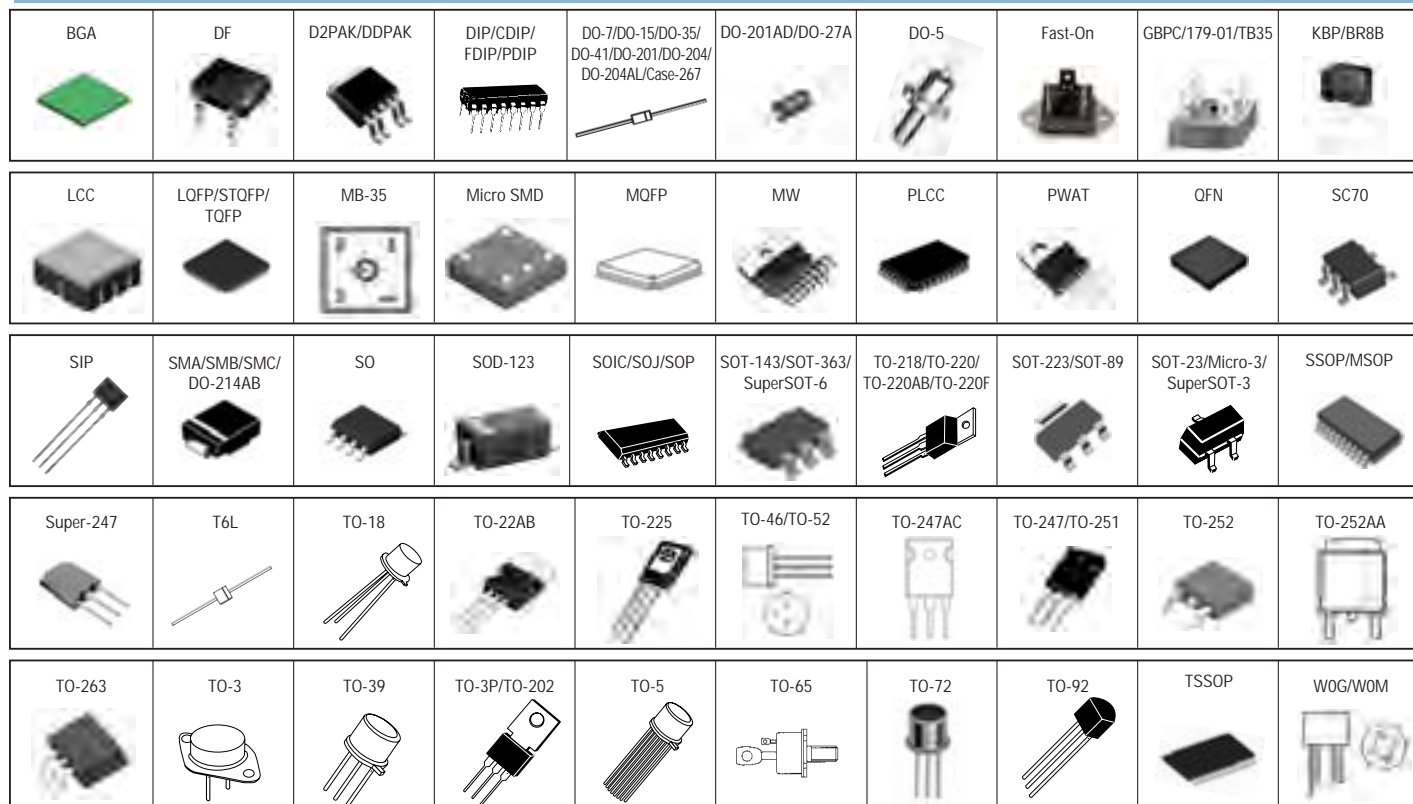
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## IC Index

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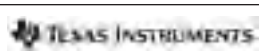
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## 7400 Series

★ Web Code: XAG

| Part No. | *Mfr. | Product No. | Pkg.   | Description                             | 1      | 10     | 100    |
|----------|-------|-------------|--------|---|--------|--------|--------|
| 48979    | ♦     | 7400N**     | DIP-14 | Quad 2-input pos. NAND gate             | \$1.09 | \$ .99 | \$ .89 |
| 910901   | TI    | SN7400N     | DIP-14 | Quad 2-input pos. NAND gate             | 1.19   | 1.09   | .95    |
| 49007    | ♦     | 7401N       | DIP-14 | Quad 2-input NAND gate (O.C.)           | .89    | .79    | .65    |
| 49015    | ♦     | 7402N*      | DIP-14 | Quad 2-input pos. NOR gate              | 1.29   | 1.09   | .95    |
| 49040    | ♦     | 7404N**     | DIP-14 | Hex inverter                            | 1.39   | 1.19   | 1.09   |
| 49074    | ♦     | 7405N*      | DIP-14 | Hex inverter (O.C.)                     | .69    | .59    | .45    |
| 49091    | ♦     | 7406N**     | DIP-14 | Hex inverter buffer/driver              | .99    | .89    | .69    |
| 49120    | ♦     | 7407N**     | DIP-14 | Hex buffer/driver                       | .99    | .89    | .69    |
| 49146    | ♦     | 7408N*      | DIP-14 | Quad 2-input pos. AND gate              | 1.95   | 1.75   | 1.49   |
| 49189    | ♦     | 7410N*      | DIP-14 | Triple 3-input pos. NAND gate           | .89    | .79    | .59    |
| 49402    | ♦     | 7413N       | DIP-14 | Dual 4-input pos. NAND gate             | 1.25   | 1.15   | 1.05   |
| 49437    | ♦     | 7414N*      | DIP-14 | Hex schmitt-trigger inverter            | .89    | .79    | .69    |
| 49630    | ♦     | 7416N*      | DIP-14 | Hex inverter buffer/driver (O.C.)       | 1.19   | 1.09   | .99    |
| 49728    | ♦     | 7417N*      | DIP-14 | Hex buffer/driver (O.C. hi-volt)        | 1.09   | .99    | .89    |
| 50008    | ♦     | 7420N*      | DIP-14 | Dual 4-input NAND gate                  | .99    | .89    | .75    |
| 50139    | ♦     | 7427N       | DIP-14 | Triple 3-input NOR gate                 | .89    | .79    | .69    |
| 50227    | ♦     | 7430N*      | DIP-14 | 8-input NAND gate                       | .99    | .89    | .79    |
| 50235    | ♦     | 7432N*      | DIP-14 | Quad 2-input pos. OR gate               | 1.29   | 1.09   | .95    |
| 50315    | ♦     | 7438N*      | DIP-14 | Quad 2-input NAND buffer                | .99    | .89    | .79    |
| 50374    | ♦     | 7442N       | DIP-16 | 4 line BCD to 10 line decimal decoder   | 1.45   | 1.25   | 1.15   |
| 50403    | ♦     | 7445N       | DIP-16 | BCD-to-decimal decoder/driver           | 1.55   | 1.35   | 1.09   |
| 50420    | ♦     | 7447N*      | DIP-16 | BCD-to-7 seg. decoder/driver            | 2.49   | 2.25   | 1.75   |
| 50526    | ♦     | 7472N       | DIP-14 | AND-gated J-K master-slave flip-flop    | .89    | .79    | .69    |
| 50534    | ♦     | 7473N       | DIP-14 | Dual J-K neg-edge-triggered flip-flop   | 1.95   | 1.75   | 1.59   |
| 50551    | ♦     | 7474N**     | DIP-14 | Dual D type flip-flop                   | .99    | .89    | .79    |
| 50577    | ♦     | 7475N       | DIP-16 | 4-bit bistable latch                    | 2.75   | 2.49   | 2.25   |
| 50593    | ♦     | 7476N       | DIP-16 | Dual J-K pos-edge-triggered flip-flop   | 2.95   | 2.65   | 2.39   |
| 50631    | ♦     | 7483N       | DIP-16 | 4-bit binary full adder                 | 2.95   | 2.65   | 2.39   |
| 50657    | ♦     | 7485N*      | DIP-16 | 4-bit magnitude comparator              | 2.49   | 2.25   | 1.95   |
| 50665    | ♦     | 7486N       | DIP-14 | Quad 2-input exclusive OR gate          | 1.95   | 1.75   | 1.49   |
| 50681    | ♦     | 7489N       | DIP-16 | 64-bit read/write memory                | 3.95   | 3.75   | 3.49   |
| 50690    | ♦     | 7490N       | DIP-14 | Asynchronous decade counter             | 2.95   | 2.65   | 2.39   |
| 50745    | ♦     | 7493N       | DIP-14 | 4-bit binary counter                    | 1.95   | 1.75   | 1.49   |
| 50770    | ♦     | 7495N       | DIP-14 | 4-bit parallel-access shift register    | 1.45   | 1.25   | 1.15   |
| 49234    | ♦     | 74107N*     | DIP-14 | Dual J-K flip-flop with clear           | .79    | .69    | .59    |
| 49322    | ♦     | 74121N*     | DIP-14 | Monostable multivibrator                | 2.75   | 2.39   | 1.95   |
| 49357    | ♦     | 74123N*     | DIP-16 | Dual monostable multivibrator           | 1.75   | 1.59   | 1.45   |
| 49373    | ♦     | 74125N      | DIP-14 | Tri-state quad bus buffer               | 1.49   | 1.35   | 1.19   |
| 49496    | ♦     | 74148N      | DIP-16 | 8-to-3 line priority encoder            | 1.19   | 1.09   | .79    |
| 49509    | ♦     | 74150N      | DIP-24 | 1-of-16 data selector/multiplexer       | 2.95   | 2.75   | 2.25   |
| 49525    | ♦     | 74151N*     | DIP-16 | 1-of-8 data selector/multiplexer        | .79    | .69    | .45    |
| 49550    | ♦     | 74153N*     | DIP-16 | Dual 4-to-1 data selector/multiplexer   | 1.19   | 1.09   | .79    |
| 49568    | ♦     | 74154N      | DIP-24 | 4-to-16 line decoder/demultiplexer      | 2.95   | 2.39   | 2.09   |
| 49605    | ♦     | 74157N*     | DIP-16 | Quad 2-to-1 line data selector          | .99    | .89    | .79    |
| 49648    | ♦     | 74160N*     | DIP-16 | Synchronous decade counter              | .59    | .55    | .49    |
| 49664    | ♦     | 74161N      | DIP-16 | 4-bit Synchronous binary counter        | .89    | .79    | .69    |
| 49672    | ♦     | 74163N      | DIP-16 | Synchronous 4-bit binary counter        | .79    | .69    | .59    |
| 49681    | ♦     | 74164N      | DIP-14 | 8-bit serial shift register             | .89    | .79    | .59    |
| 49779    | ♦     | 74174N*     | DIP-16 | Hex D-type flip-flop with clear         | .69    | .59    | .49    |
| 49795    | ♦     | 74175N*     | DIP-16 | Quad D-type flip-flop with clear        | 1.35   | 1.25   | 1.15   |
| 49832    | ♦     | 74180N      | DIP-14 | 9-bit odd/even parity generator/checker | .99    | .89    | .49    |
| 49883    | ♦     | 74189N      | DIP-16 | Tri-state 64-bit RAM                    | 2.95   | 2.75   | 2.49   |
| 49904    | ♦     | 74191N      | DIP-16 | Synch. 4-bit up/down binary counter     | 1.95   | 1.75   | 1.45   |
| 49912    | ♦     | 74192N      | DIP-16 | Synch. 4-bit up/down decade counter     | 3.95   | 3.75   | 3.49   |
| 49939    | ♦     | 74193N      | DIP-16 | Synch. 4-bit up/down binary counter     | 2.95   | 2.75   | 2.49   |
| 49955    | ♦     | 74194N      | DIP-16 | 4-bit bi-directional shift register     | 1.75   | 1.55   | 1.35   |
| 49963    | ♦     | 74195N      | DIP-16 | 4-bit parallel-access shift register    | 1.75   | 1.55   | 1.35   |

\* 10 pcs./ \*\* 20 pcs. in 7400 series IC cabinet kit, top right

## TTL Logic Data Book (1988)

Texas Instruments Contains specifications and technical information on a broad line of TTL integrated circuits including Schottky TTL circuits. (1240 pages)  
 • Size: 6.0" x 8.5"



| Part No. | Description         | Weight   | 1       | 5       |
|----------|---------------------|----------|---------|---------|
| 88225    | TTL Logic Data Book | 2.6 lbs. | \$34.95 | \$31.49 |

## 7400 Series IC Kit

Includes: 20-drawer component cabinet (319600), 20 clear plastic drawers (319601), 20 clear dividers (319611), pg 173 and 30 adhesive labels for drawers to identify parts in kit

10 each: 7402, 7405, 7408, 7410, 7414, 7416, 7417, 7420, 7430, 7432, 7438, 7447, 7470, 7485, 74107, 74121, 74123, 74132, 74151, 74153, 74157, 74160, 74174, 74175, 74279  
 20 each: 7400, 7404, 7406, 7407, 7474



SAVE \$202

| Part No. | Description          | Weight (lbs.) | 1        | 5        |
|----------|----------------------|---------------|----------|----------|
| 84953    | 350 pcs. 7400 IC kit | 6.2           | \$199.95 | \$179.95 |

## 74ABT/AC/ACT Series Please Note: Manufacturer may vary

★ Web Code: CBA

\* Order in multiples of 10

| Part No. | Product No. | Pkg.    | Description                         | 1        | 10       | 100  |
|----------|-------------|---------|-------------------------------------|----------|----------|------|
| 266159   | 74ACT08M    | SOIC-14 | Quad 2-input pos. AND gate          | * \$ .15 | * \$ .12 |      |
| 211983   | 74ACT08N    | DIP-14  | Quad 2-input pos. AND gate          | .25      | .22      | .17  |
| 264145   | 74AC10M     | DIP-14  | Triple 3-input pos. NAND gate       | * .09    | * .06    |      |
| 238887   | 74AC10N     | DIP-14  | Triple 3-input pos. NAND gate       | .29      | .25      | .19  |
| 212003   | 74ACT32N    | DIP-14  | Quad 2-input pos. OR gate           | * .15    | * .12    |      |
| 212011   | 74ACT74N    | DIP-14  | Dual D type flip-flop               | * .19    | * .17    |      |
| 238730   | 74ACT139N   | DIP-16  | Dual 2-to-4 decoder/demultiplexer   | .25      | .22      | .17  |
| 238764   | 74AC157N    | DIP-16  | Quad 2-to-1 line data selector      | .49      | .39      | .35  |
| 239054   | 74ACT174N   | DIP-16  | Hex D-type flip-flop with clear     | .39      | .35      | .29  |
| 211908   | 74AC244N    | DIP-20  | Tri-state octal buffer/line driver  | * .12    | * .09    |      |
| 212054   | 74ACT244N   | DIP-20  | Tri-state octal buffer/line driver  | * .15    | * .12    |      |
| 214199   | 74AHC245N   | DIP-20  | Tri-state octal bus transceiver     | * .15    | * .12    |      |
| 214236   | 74AHC574N   | DIP-20  | Tri-state octal D-type flip-flop    | .25      | .22      | .15  |
| 267371   | 74ACT715M   | SOIC-20 | Programmable video sync generator   | 6.95     | 5.95     | 4.95 |
| 291784   | 74ABT2244AD | SOIC-20 | Tri-state octal buffer              | * .15    | * .12    |      |
| 291400   | 74ABT5402AD | SOIC-28 | Tri-state 12-bit line/memory driver | 2.95     | 2.49     | 1.95 |

## 74ALS/ALVC Series

Please Note: Manufacturer may vary

★ Web Code: SVC

\* Order in multiples of 10

| Part No. | Product No. | Pkg.     | Description                                | 1      | 10     | 100    |
|----------|-------------|----------|--|--------|--------|--------|
| 245294   | 74ALS00AN   | DIP-14   | Quad 2-input pos. NAND gate                | \$ .25 | \$ .22 | \$ .19 |
| 314309   | 74ALVC00T   | TSSOP-14 | Quad 2-input pos. NAND gate                | .25    | .22    | .12    |
| 245307   | 74ALS04BN   | DIP-14   | Hex inverter                               | * .15  | * .09  |        |
| 314341   | 74ALVC08T   | TSSOP-14 | Quad 2-input pos. AND gate                 | .25    | .22    | .12    |
| 44134    | 74ALS32N    | DIP-14   | Quad 2-input pos. OR gate                  | .25    | .22    | .19    |
| 245892   | 74ALS74AN   | DIP-14   | Dual D-type flip-flop                      | .35    | .25    | .22    |
| 310295   | 74ALS244AM  | SOIC-20  | Tri-state octal buffer/line driver         | .35    | .25    | .22    |
| 245788   | 74ALS258N   | DIP-16   | Quad 2-to-1 line data selector/multiplexer | .25    | .22    | .12    |

## 74C Series

★ Web Code: RAG

| Part No. | *Mfr. | Product No. | Pkg.   | Description                             | 1      | 10     | 100    |
|----------|-------|-------------|--------|---|--------|--------|--------|
| 44222    | ♦     | 74C00N      | DIP-14 | Quad 2-input pos. NAND gate             | \$1.15 | \$ .95 | \$ .69 |
| 44231    | ♦     | 74C04N      | DIP-14 | Hex inverter (CD4069)                   | .89    | .79    | .59    |
| 44257    | ♦     | 74C14N      | DIP-14 | Hex schmitt-trigger inverter (CD40106)  | .79    | .69    | .59    |
| 44361    | ♦     | 74C221N     | DIP-16 | Dual monostable multivibrator           | 3.75   | 3.15   | 2.49   |
| 44396    | ♦     | 74C373N     | DIP-20 | Octal D-type transparent latch          | 2.95   | 2.49   | 2.15   |
| 44409    | ♦     | 74C374N     | DIP-20 | Octal D-type flip-flop                  | 1.95   | 1.75   | 1.49   |
| 44521    | ♦     | 74C912N     | DIP-28 | 6-digit BCD display controller/driver   | 4.95   | 4.49   | 3.95   |
| 44564    | ♦     | 74C922N     | DIP-18 | 16-key keyboard encoder                 | 6.49   | 5.49   | 5.35   |
| 871869   | FSC   | MM74C922N   | DIP-18 | 16-key keyboard encoder                 | 7.95   | 7.49   | 6.95   |
| 44572    | ♦     | 74C923N     | DIP-20 | 20-key keyboard encoder                 | 4.95   | 4.25   | 3.95   |
| 44599    | ♦     | 74C926N     | DIP-18 | 4-digit counter w/ 7-seg. output driver | 10.95  | 9.95   | 8.95   |

\* FSC = Fairchild Semiconductor | TI = Texas Instruments | ♦ Manufacturer Varies

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed AboveOrder by Phone 24/7 at 1-800-831-4242 or Online at [www.Jameco.com](http://www.Jameco.com)

# 74F, 74HC & HCT Series

3 LEVELS OF SAVINGS  
NAME BRANDS HOUSE BRANDS FACTORY OVERRUN

## 74F Series

Please Note: Manufacturer may vary

\*Web Code: CEN

| Part No. | Product No. | Pkg.    | Description                            | 1     | 10    | 100   |
|----------|-------------|---------|--|-------|-------|-------|
| 286993   | 74F02N      | DIP-14  | Quad 2-input pos. NOR gate             | \$.29 | \$.25 | \$.22 |
| 287005   | 74F04N      | DIP-14  | Hex inverter                           | .35   | .29   | .25   |
| 287013   | 74F08N      | DIP-14  | Quad 2-input pos. AND gate             | .25   | .22   | .19   |
| 44652    | 74F10N      | DIP-14  | Triple 3-input pos. NAND gate          | .35   | .29   | .25   |
| 287654   | 74F14D      | SOIC-14 | Hex schmitt trigger inverter           | .25   | .22   | .19   |
| 287021   | 74F14N      | DIP-14  | Hex schmitt trigger inverter           | .25   | .22   | .19   |
| 245121   | 74F30N      | DIP-14  | 8-input NAND gate                      | .35   | .29   | .25   |
| 287638   | 74F32D      | SOIC-14 | Quad 2-input pos. OR gate              | .25   | .22   | .15   |
| 287048   | 74F32N      | DIP-14  | Quad 2-input pos. OR gate              | .35   | .29   | .25   |
| 245139   | 74F38N      | DIP-14  | Quad 2-input NAND buffer               | .29   | .25   | .22   |
| 287620   | 74F74D      | SOIC-14 | Dual D-type flip-flop                  | .25   | .22   | .15   |
| 287056   | 74F74N      | DIP-14  | Dual D-type flip-flop                  | .25   | .22   | .19   |
| 287611   | 74F86D      | SOIC-14 | Quad 2-input exclusive OR gate         | .35   | .29   | .25   |
| 287064   | 74F86N      | DIP-14  | Quad 2-input exclusive OR gate         | .35   | .29   | .25   |
| 287566   | 74F138D     | SOIC-16 | 3-to-8 line decoder/demultiplexer      | .25   | .22   | .15   |
| 287072   | 74F138N     | DIP-16  | 3-to-8 line decoder/demultiplexer      | .29   | .25   | .22   |
| 287081   | 74F139N     | DIP-16  | Dual 2-to-4 decoder/demultiplexer      | .29   | .25   | .22   |
| 245163   | 74F148N     | DIP-16  | 8-to-3 line priority encoder           | .29   | .25   | .22   |
| 245171   | 74F157AN    | DIP-16  | Quad 2-to-1 line data selector         | .29   | .25   | .22   |
| 282731   | 74F174N     | DIP-16  | Hex D-type flip-flop with clear        | .29   | .25   | .22   |
| 287540   | 74F244D     | SOIC-20 | Tri-state octal buffer/line driver     | .29   | .25   | .22   |
| 287144   | 74F245N     | DIP-20  | Tri-state octal bus transceiver        | .35   | .29   | .25   |
| 283557   | 74F257D     | SOIC-16 | Quad 2-to-1 data selector/multiplexer  | .29   | .25   | .22   |
| 287099   | 74F273N     | DIP-20  | Octal D-type flip-flop                 | .45   | .39   | .35   |
| 287494   | 74F373D     | SOIC-20 | Octal D-type transparent latch         | .45   | .39   | .35   |
| 282642   | 74F573N     | DIP-20  | 3-state octal D-type transparent latch | .25   | .22   | .12   |
| 287216   | 74F574N     | DIP-20  | Tri-state octal D-type flip-flop       | .49   | .39   | .35   |
| 287460   | 74F574D     | SOIC-20 | Tri-state octal D-type flip-flop       | .49   | .39   | .35   |

## 74HC Series

\*Web Code: SDJ

| Part No. | *Mfr. | Product No. | Pkg.     | Description                       | * Order in multiples of 10 |       |       |
|----------|-------|-------------|----------|-----------------------------------|----------------------------|-------|-------|
|          |       |             |          |                                   | 1                          | 10    | 100   |
| 906291   | NXP   | 74HC00D-T   | SOIC-14  | Quad 2-input pos. NAND gate       | *.09                       | \$.09 | \$.07 |
| 45161    | +     | 74HC00N     | DIP-14   | Quad 2-input pos. NAND gate       | .25                        | .22   | .19   |
| 906339   | NXP   | 74HC00N     | DIP-14   | Quad 2-input pos. NAND gate       | *.19                       | .15   |       |
| 835219   | TI    | SN74HC00N   | DIP-14   | Quad 2-input pos. NAND gate       | .35                        | .29   | .19   |
| 45188    | +     | 74HC02N     | DIP-14   | Quad 2-input pos. NOR gate        | .29                        | .25   | .22   |
| 906531   | NXP   | 74HC04D-T   | SOIC-14  | Hex inverter                      | *.09                       | .07   |       |
| 45209    | +     | 74HC04N     | DIP-14   | Hex inverter                      | .29                        | .25   | .22   |
| 250982   | TI    | SN74HC04N   | DIP-14   | Hex inverter                      | .35                        | .29   | .25   |
| 835235   | TI    | SN74HC04N   | DIP-14   | Hex inverter                      | .35                        | .29   | .25   |
| 906574   | NXP   | 74HC04N     | DIP-14   | Hex inverter                      | .29                        | .25   | .22   |
| 906611   | NXP   | 74HC08D-T   | SOIC-14  | Quad 2-input pos. AND gate        | *.09                       | .07   |       |
| 45225    | +     | 74HC08N     | DIP-14   | Quad 2-input pos. AND gate        | .29                        | .25   | .22   |
| 45364    | +     | 74HC14N     | DIP-14   | Hex schmitt-trigger inverter      | .29                        | .25   | .22   |
| 251045   | TI    | SN74HC14N   | DIP-14   | Hex schmitt-trigger inverter      | .32                        | .27   | .23   |
| 835340   | TI    | SN74HC14N   | DIP-14   | Hex schmitt-trigger inverter      | .35                        | .29   | .25   |
| 45583    | +     | 74HC20N     | DIP-14   | Dual 4-input NAND gate            | .29                        | .25   | .19   |
| 915841   | TI    | SN74HC27DR  | SOIC-14  | Triple 3-input pos. NOR gate      | *.09                       | .08   |       |
| 908799   | NXP   | 74HC32D-T   | SOIC-14  | Quad 2-input pos. OR gate         | *.09                       | .07   |       |
| 45794    | +     | 74HC32N     | DIP-14   | Quad 2-input pos. OR gate         | .29                        | .25   | .22   |
| 251088   | TI    | SN74HC32N   | DIP-14   | Quad 2-input pos. OR gate         | .35                        | .29   | .25   |
| 46130    | +     | 74HC74N     | DIP-14   | Dual D-type flip-flop             | .29                        | .25   | .22   |
| 251097   | TI    | SN74HC74NE4 | DIP-14   | Dual D-type flip-flop             | .39                        | .35   | .29   |
| 46181    | +     | 74HC86N     | DIP-14   | Quad 2-input exclusive OR gate    | .25                        | .22   | .19   |
| 45292    | +     | 74HC123N    | DIP-16   | Dual monostable multivibrator     | .29                        | .25   | .22   |
| 45305    | +     | 74HC125N    | DIP-14   | Tri-state quad bus buffer         | .25                        | .22   | .17   |
| 380146   | TI    | SN74HC132PW | TSSOP-14 | Quad 2-input NAND schmitt trigger | *.12                       | .09   |       |
| 45321    | +     | 74HC132N    | DIP-14   | Quad 2-input NAND schmitt trigger | .35                        | .29   | .25   |
| 86182    | +     | 74HC138D    | SOIC-16  | 3-to-8 line decoder/demultiplexer | .25                        | .22   | .12   |
| 45330    | +     | 74HC138N    | DIP-16   | 3-to-8 line decoder/demultiplexer | .35                        | .29   | .25   |

## 74HC Series (Continued)

\*Web Code: SDJ

| Part No. | *Mfr. | Product No.  | Pkg.     | Description                           | * Order in multiples of 10 |       |       |
|----------|-------|--------------|----------|---------------------------------------|----------------------------|-------|-------|
|          |       |              |          |                                       | 1                          | 10    | 100   |
| 45401    | +     | 74HC154N     | DIP-24   | 4-to-16 line decoder (0.3" wide)      | \$.79                      | \$.69 | \$.59 |
| 45487    | +     | 74HC164N     | DIP-14   | 8-bit serial shift register           | .29                        | .25   | .22   |
| 251328   | TI    | SN74HC164N   | DIP-14   | 8-bit serial shift register           | .45                        | .39   | .35   |
| 45495    | +     | 74HC165N     | DIP-16   | 8-bit parallel load shift register    | .25                        | .22   | .19   |
| 251336   | TI    | SN74HC165N   | DIP-16   | 8-bit parallel load shift register    | .35                        | .29   | .25   |
| 380437   | TI    | SN74HC174PW  | TSSOP-16 | Hex D-type flip-flop with clear       | .25                        | .22   | .12   |
| 45541    | +     | 74HC192N     | DIP-16   | Synch. 4-bit up/down decade counter   | 1.49                       | 1.39  | 1.25  |
| 915551   | TI    | SN74HC244PWR | TSSOP-20 | Tri-state octal buffer/line driver    | *.15                       | .12   |       |
| 45655    | +     | 74HC244N     | DIP-20   | Tri-state octal buffer/line driver    | .25                        | .22   | .19   |
| 45671    | +     | 74HC245N     | DIP-20   | Tri-state octal bus transceiver       | .25                        | .22   | .19   |
| 45719    | +     | 74HC257N     | DIP-16   | Quad 2-to-1 data selector/multiplexer | .25                        | .22   | .17   |
| 45743    | +     | 74HC273N     | DIP-20   | Octal D-type flip-flop                | .35                        | .29   | .25   |
| 45831    | +     | 74HC373N     | DIP-20   | Octal D-type transparent latch        | .35                        | .29   | .25   |
| 86254    | +     | 74HC374D     | SOIC-20  | Octal D-type flip-flop                | .25                        | .22   | .15   |
| 45858    | +     | 74HC374N     | DIP-20   | Octal D-type flip-flop                | .35                        | .29   | .25   |
| 380998   | +     | 74HC540T     | TSSOP-20 | Tri-state octal buffer/line driver    | .25                        | .22   | .15   |
| 109760   | +     | 74HC540N     | DIP-20   | Tri-state octal buffer/line driver    | .39                        | .35   | .29   |
| 381000   | TI    | SN74HC541PW  | TSSOP-20 | Tri-state octal buffer/line driver    | .25                        | .22   | .12   |
| 46050    | +     | 74HC541N     | DIP-20   | Tri-state octal buffer/line driver    | .39                        | .35   | .29   |
| 46076    | +     | 74HC573N     | DIP-20   | 3-st. octal D-type transparent latch  | .29                        | .25   | .22   |
| 46084    | +     | 74HC574N     | DIP-20   | Tri-state octal D-type flip-flop      | .35                        | .29   | .22   |
| 46105    | +     | 74HC595N     | DIP-16   | 8-bit shift register w/ output latch  | .35                        | .29   | .25   |
| 911189   | NXP   | 74HC595N     | DIP-16   | 8-bit shift register w/ output latch  | .35                        | .29   | .25   |
| 251643   | TI    | SN74HC595N   | DIP-16   | 8-bit shift register w/ output latch  | .45                        | .39   | .35   |
| 46113    | +     | 74HC688N     | DIP-20   | 8-bit identity comparator             | .49                        | .45   | .39   |
| 45891    | +     | 74HC4017N    | DIP-16   | Hi speed decade counter/divider       | .39                        | .35   | .29   |
| 272129   | +     | 74HC4053N    | DIP-16   | Triple 2-ch analog multiplexer        | .29                        | .25   | .22   |
| 45971    | +     | 74HC4066N    | DIP-14   | Quad bilateral analog switch          | .35                        | .29   | .25   |
| 252566   | TI    | CD74HC4316M  | SOIC-16  | High speed quad analog switch         | .29                        | .25   | .22   |

## 74HCT Series

Please Note: Manufacturer may vary

\*Web Code: SAG

| Part No. | Product No.  | Pkg.     | Description                          | * Order in multiples of 10 |       |       |
|----------|--------------|----------|--------------------------------------|----------------------------|-------|-------|
|          |              |          |                                      | 1                          | 10    | 100   |
| 246027   | 74HCT00M     | SOIC-14  | Quad 2-input pos. NAND gate          | *.09                       | \$.09 | \$.07 |
| 44871    | 74HCT00N     | DIP-14   | Quad 2-input pos. NAND gate          | .25                        | .22   | .15   |
| 44898    | 74HCT04N     | DIP-14   | Hex inverter                         | .25                        | .22   | .17   |
| 63765    | 74HCT05N     | DIP-14   | Hex inverter (O.C.)                  | .29                        | .25   | .22   |
| 44901    | 74HCT08N     | DIP-14   | Quad 2-input pos. AND gate           | .25                        | .22   | .15   |
| 618046   | 74HCT10N     | DIP-14   | Triple 3-input pos. NAND gate        | .25                        | .22   | .19   |
| 912296   | 74HCT14D-T   | SOIC-14  | Hex schmitt-trigger inverter         | *.09                       | .07   |       |
| 44935    | 74HCT14N     | DIP-14   | Hex schmitt-trigger inverter         | .25                        | .22   | .19   |
| 45137    | 74HCT74N     | DIP-14   | Dual D-type flip-flop                | .25                        | .22   | .19   |
| 45145    | 74HCT86N     | DIP-14   | Quad 2-input exclusive OR gate       | .29                        | .25   | .22   |
| 44927    | 74HCT138N    | DIP-16   | 3-to-8 decoder/demultiplexer         | .29                        | .25   | .22   |
| 381253   | SN74HCT240PW | TSSOP-20 | Octal buffer/line driver             | *.15                       | .12   |       |
| 45022    | 74HCT244N    | DIP-20   | Tri-state octal buffer/line driver   | .29                        | .25   | .22   |
| 45031    | 74HCT245N    | DIP-20   | Tri-state octal bus transceiver      | .29                        | .25   | .22   |
| 45065    | 74HCT373N    | DIP-20   | Octal D-type transparent latch       | .29                        | .25   | .22   |
| 45073    | 74HCT374N    | DIP-20   | Octal D-type flip-flop               | .35                        | .29   | .25   |
| 45090    | 74HCT573N    | DIP-20   | 3-st. octal D-type transparent latch | .39                        | .35   | .29   |

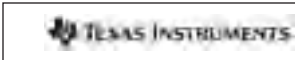
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\* NXP = NXP/Philip Semiconductor | TI = Texas Instruments | + Manufacturer Varies

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 197.





## 74LS Series

\*Web Code: NBS

| Part No. | *Mfr. | Product No. | Pkg.   | Description                                  | 1     | 10    | 100   |
|----------|-------|-------------|--------|--|-------|-------|-------|
| 46252    | ♦     | 74LS00N**   | DIP-14 | Quad 2-input pos. NAND gate .....            | \$.39 | \$.29 | \$.25 |
| 46253    | ♦     | 74LS00N     | DIP-14 | Quad 2-input pos. NAND gate .....            | .45   | .35   | .29   |
| 283725   | TI    | SN74LS00N   | DIP-14 | Quad 2-input pos. NAND gate .....            | .45   | .35   | .29   |
| 46287    | ♦     | 74LS02N**   | DIP-14 | Quad 2-input pos. NOR gate .....             | .39   | .29   | .25   |
| 283741   | TI    | SN74LS02N   | DIP-14 | Quad 2-input pos. NOR gate .....             | .45   | .35   | .29   |
| 283784   | TI    | SN74LS03N   | DIP-14 | Quad 2-input pos. NAND gate (O.C.) .....     | .69   | .49   | .45   |
| 46316    | ♦     | 74LS04N**   | DIP-14 | Hex inverter .....                           | .39   | .29   | .25   |
| 283792   | TI    | SN74LS04N   | DIP-14 | Hex inverter .....                           | .45   | .35   | .29   |
| 46318    | ♦     | 74LS04N     | DIP-14 | Hex inverter .....                           | .45   | .35   | .29   |
| 46341    | ♦     | 74LS05N*    | DIP-14 | Hex inverter (O.C.) .....                    | .45   | .35   | .29   |
| 46359    | ♦     | 74LS06N     | DIP-14 | Hex inverter buffer/driver .....             | .75   | .65   | .55   |
| 46367    | ♦     | 74LS07N     | DIP-14 | Hex buffer/driver .....                      | .75   | .65   | .55   |
| 46375    | ♦     | 74LS08N**   | DIP-14 | Quad 2-input pos. AND gate .....             | .39   | .29   | .25   |
| 295401   | TI    | SN74LS08N   | DIP-14 | Quad 2-input pos. AND gate .....             | .45   | .35   | .29   |
| 46391    | ♦     | 74LS09N     | DIP-14 | Quad 2-input pos. AND gate (O.C.) .....      | .45   | .35   | .29   |
| 46404    | ♦     | 74LS10N*    | DIP-14 | Triple 3-input pos. NAND gate .....          | .55   | .39   | .35   |
| 46439    | ♦     | 74LS11N*    | DIP-14 | Triple 3-input pos. AND gate .....           | .55   | .39   | .35   |
| 46640    | ♦     | 74LS14N*    | DIP-14 | Hex schmitt-trigger inverter .....           | .39   | .29   | .25   |
| 295460   | TI    | SN74LS14N   | DIP-14 | Hex schmitt-trigger inverter .....           | .45   | .35   | .29   |
| 47095    | ♦     | 74LS20N*    | DIP-14 | Dual 4-input NAND gate .....                 | .59   | .49   | .39   |
| 295478   | TI    | SN74LS20N   | DIP-14 | Dual 4-input NAND gate .....                 | .65   | .55   | .45   |
| 47108    | ♦     | 74LS21N     | DIP-14 | Dual 4-input AND gate .....                  | .49   | .39   | .29   |
| 47378    | ♦     | 74LS27N     | DIP-14 | Triple 3-input NOR gate .....                | .59   | .49   | .39   |
| 47458    | ♦     | 74LS30N*    | DIP-14 | 8-input NAND gate .....                      | .29   | .25   | .22   |
| 47466    | ♦     | 74LS32N**   | DIP-14 | Quad 2-input pos. OR gate .....              | .35   | .25   | .22   |
| 295515   | TI    | SN74LS32N   | DIP-14 | Quad 2-input pos. OR gate .....              | .49   | .45   | .39   |
| 47467    | ♦     | 74LS32N     | DIP-14 | Quad 2-input pos. OR gate .....              | .39   | .29   | .25   |
| 295558   | TI    | SN74LS37N   | DIP-14 | Quad 2-input pos. NAND buffer .....          | .65   | .55   | .45   |
| 47773    | ♦     | 74LS42N     | DIP-14 | 4 line BCD to 10 line decimal decoder .....  | .85   | .75   | .65   |
| 47790    | ♦     | 74LS47N*    | DIP-16 | BCD-to-7 seg. decoder/driver .....           | 1.09  | .89   | .79   |
| 295582   | TI    | SN74LS47N   | DIP-16 | BCD-to-7 seg. decoder/driver .....           | 1.19  | .99   | .89   |
| 47811    | ♦     | 74LS48N     | DIP-16 | BCD-to-7 seg. decoder/driver .....           | 3.95  | 3.49  | 2.95  |
| 47992    | ♦     | 74LS73N*    | DIP-14 | Dual J-K neg-edge-triggered flip-flop ...    | 1.09  | .95   | .75   |
| 48004    | ♦     | 74LS74N**   | DIP-14 | Dual D-type flip-flop .....                  | .49   | .39   | .35   |
| 295726   | TI    | SN74LS74AN  | DIP-14 | Dual D-type flip-flop .....                  | .55   | .45   | .39   |
| 48021    | ♦     | 74LS75N*    | DIP-16 | 4-bit bi-stable latch .....                  | 1.15  | .95   | .79   |
| 295734   | TI    | SN74LS75N   | DIP-16 | 4-bit bi-stable latch .....                  | 1.25  | 1.05  | .85   |
| 48039    | ♦     | 74LS76N     | DIP-16 | Dual J-K pos-edge-triggered flip-flop ...    | 1.29  | 1.19  | 1.09  |
| 48063    | ♦     | 74LS83N     | DIP-16 | 4-bit binary full adder .....                | 2.19  | 1.99  | 1.79  |
| 48071    | ♦     | 74LS85N*    | DIP-16 | 4-bit magnitude comparator .....             | .79   | .69   | .59   |
| 295742   | TI    | SN74LS85N   | DIP-16 | 4-bit magnitude comparator .....             | .89   | .79   | .65   |
| 48098    | ♦     | 74LS86N*    | DIP-14 | Quad 2-input exclusive OR gate .....         | .49   | .39   | .29   |
| 295751   | TI    | SN74LS86N   | DIP-14 | Quad 2-input exclusive OR gate .....         | .55   | .45   | .35   |
| 48119    | ♦     | 74LS90N*    | DIP-14 | Asynchronous decade counter ...              | 1.25  | 1.15  | .85   |
| 295769   | TI    | SN74LS90N   | DIP-14 | Asynchronous decade counter ...              | 1.35  | 1.25  | .95   |
| 48143    | ♦     | 74LS92N     | DIP-14 | Divide-by-12 decade counter .....            | 1.49  | 1.29  | 1.09  |
| 48151    | ♦     | 74LS93N*    | DIP-14 | 4-bit binary counter .....                   | 1.25  | 1.05  | .79   |
| 295822   | TI    | SN74LS93N   | DIP-14 | 4-bit binary counter .....                   | 1.35  | 1.15  | .89   |
| 46412    | ♦     | 74LS107N    | DIP-14 | Dual J-K flip-flop with clear .....          | 1.05  | .89   | .69   |
| 46421    | ♦     | 74LS109N    | DIP-16 | Dual J-K bar flip-flop .....                 | .85   | .75   | .65   |
| 46447    | ♦     | 74LS112N    | DIP-16 | Dual J-K neg-edge-triggered flip-flop ...    | .55   | .45   | .35   |
| 46471    | ♦     | 74LS122N    | DIP-14 | Retriggerable monostable multivibrator ..... | .89   | .79   | .69   |
| 46480    | ♦     | 74LS123N*   | DIP-16 | Dual monostable multivibrator .....          | .55   | .45   | .35   |
| 300880   | TI    | SN74LS123N  | DIP-16 | Dual monostable multivibrator .....          | .59   | .49   | .39   |
| 46501    | ♦     | 74LS125N*   | DIP-14 | Tri-state quad bus buffer .....              | .55   | .45   | .35   |
| 46527    | ♦     | 74LS126N    | DIP-14 | Tri-state quad bus buffer .....              | .55   | .45   | .35   |
| 46551    | ♦     | 74LS132N    | DIP-14 | Quad 2-input NAND schmitt trigger .....      | .59   | .49   | .39   |

\*10 pcs./ \*\*20 pcs. in 74LS series IC cabinet kit, pg 6

## 74LS Series (Continued)

\*Web Code: NBS

| Part No. | *Mfr. | Product No. | Pkg.   | Description                                 | 1     | 10    | 100   |
|----------|-------|-------------|--------|---|-------|-------|-------|
| 46586    | ♦     | 74LS136N    | DIP-14 | Quad 2-input exclusive OR gate ..           | \$.39 | \$.35 | \$.25 |
| 46607    | ♦     | 74LS138N**  | DIP-16 | 3-to-8 decoder/demultiplexer .....          | .49   | .39   | .29   |
| 301233   | TI    | SN74LS138N  | DIP-16 | 3-to-8 decoder/demultiplexer .....          | .65   | .55   | .45   |
| 46608    | ♦     | 74LS138N    | DIP-16 | 3-to-8 decoder/demultiplexer .....          | .69   | .59   | .49   |
| 46623    | ♦     | 74LS139N*   | DIP-16 | Dual 2-to-4 decoder/demultiplexer ..        | .49   | .39   | .29   |
| 301268   | TI    | SN74LS139AN | DIP-16 | Dual 2-to-4 decoder/demultiplexer ..        | .55   | .45   | .35   |
| 46666    | ♦     | 74LS145N    | DIP-16 | BCD-to-decimal decoder/driver .....         | .59   | .49   | .39   |
| 301276   | TI    | SN74LS145N  | DIP-16 | BCD-to-decimal decoder/driver .....         | .65   | .55   | .45   |
| 46682    | ♦     | 74LS148N    | DIP-16 | 8-to-3 line priority encoder .....          | .95   | .85   | .75   |
| 46703    | ♦     | 74LS151N*   | DIP-16 | 1-to-8 data selector/multiplexer .....      | .65   | .55   | .45   |
| 46720    | ♦     | 74LS153N    | DIP-16 | Dual 4-to-1 data selector/multiplexer ..    | .65   | .55   | .45   |
| 46738    | ♦     | 74LS154N    | DIP-24 | 4-to-16 line decoder/demultiplexer ..       | 4.95  | 4.75  | 4.25  |
| 46754    | ♦     | 74LS155N*   | DIP-16 | Dual 2-to-4 line decoder/demultiplexer ..   | .85   | .75   | .65   |
| 46771    | ♦     | 74LS157N*   | DIP-16 | Quad 2-to-1 line data selector .....        | .49   | .39   | .29   |
| 46800    | ♦     | 74LS160N    | DIP-16 | Synchronous decade counter .....            | 2.49  | 2.25  | 2.05  |
| 46818    | ♦     | 74LS161N    | DIP-16 | 4-bit synchronous binary counter .....      | .55   | .45   | .35   |
| 301647   | TI    | SN74LS161AN | DIP-16 | 4-bit synchronous binary counter .....      | .59   | .49   | .39   |
| 46842    | ♦     | 74LS163N    | DIP-16 | Synchronous 4-bit binary counter .....      | .59   | .49   | .39   |
| 46851    | ♦     | 74LS164N    | DIP-14 | 8-bit serial shift register .....           | .55   | .45   | .35   |
| 46877    | ♦     | 74LS165N    | DIP-16 | 8-bit parallel load shift register .....    | .55   | .45   | .35   |
| 46885    | ♦     | 74LS166N    | DIP-16 | Serial-out shift register .....             | .89   | .79   | .69   |
| 46906    | ♦     | 74LS169N    | DIP-16 | Synch. 4-bit binary up/down counter ..      | .89   | .79   | .69   |
| 46922    | ♦     | 74LS173N    | DIP-16 | 4-bit D-type register w/ 3-state output ..  | .89   | .79   | .69   |
| 46931    | ♦     | 74LS174N*   | DIP-16 | Hex D-type flip-flop with clear .....       | .69   | .59   | .49   |
| 46957    | ♦     | 74LS175N*   | DIP-16 | Quad D-type flip-flop with clear .....      | .59   | .49   | .39   |
| 46973    | ♦     | 74LS181N    | DIP-24 | Arithmetic logic unit/function generator .. | 2.95  | 2.75  | 2.49  |
| 46990    | ♦     | 74LS190N    | DIP-16 | Synchronous up/down decade counter ..       | 2.95  | 2.75  | 2.49  |
| 47001    | ♦     | 74LS191N    | DIP-16 | Synch. 4-bit up/down binary counter ..      | .65   | .55   | .45   |
| 47010    | ♦     | 74LS192N    | DIP-16 | Synch. 4-bit up/down decade counter ..      | 3.49  | 3.25  | 2.95  |
| 47036    | ♦     | 74LS193N*   | DIP-16 | Synch. 4-bit up/down binary counter ..      | .45   | .39   | .35   |
| 301831   | TI    | SN74LS193N  | DIP-16 | Synch. 4-bit up/down binary counter ..      | .89   | .79   | .69   |
| 47052    | ♦     | 74LS194N    | DIP-16 | 4-bit bi-directional shift register ...     | .89   | .79   | .69   |
| 301858   | TI    | SN74LS194N  | DIP-16 | 4-bit bi-directional shift register ...     | .99   | .89   | .75   |
| 47061    | ♦     | 74LS195N    | DIP-16 | 4-bit parallel-access shift register .....  | 2.05  | 1.95  | 1.75  |
| 47124    | ♦     | 74LS221N    | DIP-16 | Dual monostable multivibrator .....         | .75   | .65   | .55   |
| 47141    | ♦     | 74LS240N*   | DIP-20 | Octal buffer/line driver .....              | .59   | .49   | .39   |
| 308291   | TI    | SN74LS240N  | DIP-20 | Octal buffer/line driver .....              | .65   | .55   | .45   |
| 47167    | ♦     | 74LS241N    | DIP-20 | Tri-state octal buffer/line driver .....    | .65   | .55   | .45   |
| 47183    | ♦     | 74LS244N*   | DIP-20 | Tri-state octal buffer/line driver .....    | .55   | .45   | .35   |
| 308312   | TI    | SN74LS244N  | DIP-20 | Tri-state octal buffer/line driver .....    | .59   | .49   | .39   |
| 47212    | ♦     | 74LS245N*   | DIP-20 | Tri-state octal bus transceiver .....       | .65   | .55   | .39   |
| 308321   | TI    | SN74LS245N  | DIP-20 | Tri-state octal bus transceiver .....       | .69   | .59   | .45   |
| 47247    | ♦     | 74LS247N    | DIP-16 | BCD to 7-seg. decoder/driver .....          | 1.09  | .99   | .89   |
| 47327    | ♦     | 74LS259N    | DIP-16 | 8-bit addressable latch .....               | .89   | .79   | .69   |
| 47360    | ♦     | 74LS266N    | DIP-14 | Quad 2-input exclusive NOR gate (O.C.) ..   | .65   | .55   | .45   |
| 47386    | ♦     | 74LS273N*   | DIP-20 | Octal D-type flip-flop .....                | .59   | .49   | .39   |
| 308398   | TI    | SN74LS273N  | DIP-20 | Octal D-type flip-flop .....                | .65   | .55   | .45   |
| 47407    | ♦     | 74LS279N    | DIP-16 | Quad S-R latch .....                        | .75   | .65   | .55   |
| 47423    | ♦     | 74LS283N    | DIP-16 | 4-bit binary full add w/ fast carry ...     | .95   | .85   | .65   |
| 47554    | ♦     | 74LS366N    | DIP-6  | Tri-state hex buffer .....                  | .59   | .49   | .39   |
| 47562    | ♦     | 74LS367N    | DIP-16 | Tri-state hex buffer .....                  | .69   | .59   | .49   |
| 309278   | TI    | SN74LS368AN | DIP-16 | 6-bit buffer/line driver .....              | .79   | .69   | .59   |
| 308460   | TI    | SN74LS373N  | DIP-20 | Octal D-type transparent latch .....        | .59   | .49   | .39   |
| 47600    | ♦     | 74LS373N*   | DIP-20 | Octal D-type transparent latch .....        | .55   | .45   | .35   |
| 308478   | TI    | SN74LS374N  | DIP-20 | Octal D-type flip-flop .....                | .59   | .49   | .39   |
| 47634    | ♦     | 74LS374N*   | DIP-20 | Octal D-type flip-flop .....                | .55   | .45   | .35   |
| 1944311  | ♦     | 74LS375N    | DIP-16 | 4-bit bistable latch .....                  | .75   | .65   | .45   |
| 47669    | ♦     | 74LS377N    | DIP-20 | Octal D-type flip-flop .....                | .85   | .75   | .65   |
| 47722    | ♦     | 74LS390N    | DIP-16 | Dual 4-bit decade counter .....             | .95   | .85   | .75   |
| 47731    | ♦     | 74LS393N    | DIP-14 | Dual 4-bit binary counter .....             | .75   | .65   | .55   |
| 47861    | ♦     | 74LS540N    | DIP-20 | Tri-state octal buffer/line driver .....    | .89   | .79   | .69   |

\*10 pcs./ \*\*20 pcs. in 74LS series IC cabinet kit, pg 6

74LS Series continued on next page

\* TI = Texas Instruments ♦ Manufacturer Varies

\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

## 74LS Series (Continued)

\*Web Code: NBS

| Part No. | *Mfr. | Product No. | Pkg.   | Description                            | 1      | 10     | 100    |
|----------|-------|-------------|--------|--|--------|--------|--------|
| 47870    | ◆     | 74LS541N    | DIP-20 | Tri-state octal buffer/line driver ..  | \$ .75 | \$ .65 | \$ .55 |
| 64418    | ◆     | 74LS573     | DIP-20 | Tri-state octal D-type flip flop ..... | 2.19   | 2.05   | 1.95   |
| 64426    | ◆     | 74LS574     | DIP-20 | Tri-state octal D-type flip flop ..... | 2.19   | 2.05   | 1.95   |
| 103974   | ◆     | 74LS595N    | DIP-16 | 8-bit shift register with output latch | 4.95   | 4.49   | 3.95   |
| 47950    | ◆     | 74LS645N    | DIP-20 | Tri-state octal bus transceiver .....  | 1.09   | .89    | .79    |
| 47984    | ◆     | 74LS688N    | DIP-20 | 8-bit identity comparator .....        | 1.25   | 1.05   | .85    |

## 74LS Series IC Kit

SAVE \$76



Includes: 20-drawer component cabinet (319600), 20 clear plastic drawers (319601), 20 clear dividers (319611), pg 173 and 30 adhesive labels for drawers to identify parts in kit

10 each: 74LS05, 74LS10, 74LS11, 74LS14, 74LS20, 74LS30, 74LS47, 74LS73, 74LS75, 74LS85, 74LS86, 74LS90, 74LS93, 74LS123, 74LS125, 74LS139, 74LS151, 74LS155, 74LS157, 74LS174, 74LS175, 74LS193, 74LS240, 74LS244, 74LS245, 74LS273, 74LS373, 74LS374

20 each: 74LS00, 74LS02, 74LS04, 74LS08, 74LS32, 74LS74, 74LS138

| Part No. | Description                 | Wt. (lbs.) | 1        | 5        |
|----------|-----------------------------|------------|----------|----------|
| 84961    | 420 pcs. 74LS IC kit        | 6.7        | \$149.95 | \$129.95 |
| 130391   | Refill for 84961 (420 pcs.) | 2.0        | 134.95   | 119.95   |

See page 3 for our TTL Logic Data Book

## 74S Series

Please Note: Manufacturer may vary

\*Web Code: NCK

| Part No. | Product No. | Pkg.   | Description                                 | 1      | 10     | 100    |
|----------|-------------|--------|---|--------|--------|--------|
| 48573    | 74S20N      | DIP-14 | Dual 4-input NAND gate .....                | \$ .65 | \$ .55 | \$ .45 |
| 48750    | 74S32N      | DIP-14 | Quad 2-input pos. OR gate .....             | .55    | .45    | .35    |
| 48531    | 74S188N     | DIP-16 | (32 x 8) 256-bit TTL PROM (27S18) .....     | 5.95   | 5.49   | 4.95   |
| 48557    | 74S189N     | DIP-16 | (16 x 4) 64-bit RAM (27S03) .....           | 3.95   | 3.75   | 3.49   |
| 677020   | 74S244N     | DIP-20 | Tri-state octal buffer/line driver .....    | .69    | .55    | .45    |
| 48696    | 74S287N     | DIP-16 | (256 x 4) 1024-bit TTL PROM (TBP24S10) ..   | 10.95  | 9.95   | 7.95   |
| 48717    | 74S288N     | DIP-16 | (32 x 8) 256-bit TTL PROM (TBP18S030N) ..   | 9.95   | 8.95   | 7.95   |
| 48805    | 74S387N     | DIP-16 | (256 x 4) 1024-bit TTL PROM (TBP24SA10N) .. | 3.95   | 3.75   | 3.49   |
| 52513    | 74S428N★    | DIP-28 | System controller/bus driver (8228) .....   | 3.95   | 3.75   | 3.49   |
| 48864    | 74S472N     | DIP-20 | (512 x 8) 4096-bit TTL PROM (TBP28S42N) ..  | 12.95  | 11.95  | 10.95  |
| 48910    | 74S571N     | DIP-16 | (512 x 4) 2048-bit TTL PROM (AM27S13) ...   | 7.95   | 6.95   | 5.95   |

★ Pull = Extra Savings

## 4000 Series

\*Web Code: WAA

| Part No. | *Mfr. | Product No. | Pkg.    | Description                              | 1      | 10     | 100    |
|----------|-------|-------------|---------|--|--------|--------|--------|
| 12562    | ◆     | CD4001**    | DIP-14  | Quad 2-input NOR gate .....              | \$ .25 | \$ .22 | \$ .19 |
| 675964   | ◆     | CD4002      | DIP-14  | Dual 4-input NOR gate .....              | .29    | .25    | .22    |
| 12597    | ◆     | CD4007      | DIP-14  | Dual complimentary pair plus inverter .. | .29    | .25    | .22    |
| 197270   | ◆     | CD4011M     | SOIC-14 | Quad 2-input NAND gate .....             | *      | .12    | .09    |
| 12634    | ◆     | CD4011**    | DIP-14  | Quad 2-input NAND gate .....             | .25    | .22    | .19    |
| 893283   | TI    | CD4011BE    | DIP-14  | Quad 2-input NAND gate .....             | .45    | .39    | .29    |
| 12677    | ◆     | CD4013**    | DIP-14  | Dual D-type flip-flop .....              | .29    | .25    | .22    |
| 893443   | TI    | CD4013BE    | DIP-14  | Dual D-type flip-flop .....              | .35    | .25    | .22    |
| 12706    | ◆     | CD4015*     | DIP-16  | Dual 4-stage static shift register ...   | .29    | .25    | .22    |
| 12722    | ◆     | CD4016*     | DIP-14  | Quad bilateral switch .....              | .29    | .25    | .22    |
| 197296   | ◆     | CD4017M     | SOIC-16 | Decade counter/divider .....             | *      | .12    | .09    |
| 12749    | ◆     | CD4017*     | DIP-16  | Decade counter/divider .....             | .35    | .29    | .25    |
| 893611   | TI    | CD4017BE    | DIP-16  | Decade counter/divider .....             | .39    | .35    | .25    |
| 12773    | ◆     | CD4018      | DIP-16  | Presetable divide-by-N counter ...       | .49    | .45    | .35    |
| 12802    | ◆     | CD4020*     | DIP-16  | 14-stage ripple carry binary counter ..  | .39    | .35    | .29    |
| 12829    | ◆     | CD4021      | DIP-16  | 8-stage static shift register .....      | .29    | .25    | .22    |
| 12845    | ◆     | CD4025*     | DIP-14  | Triple 3-input NAND gates .....          | .29    | .25    | .22    |
| 12853    | ◆     | CD4024*     | DIP-14  | 7-stage ripple carry binary counter ..   | .29    | .25    | .22    |
| 353560   | ◆     | CD4026      | DIP-16  | Decade counter/divider .....             | .55    | .45    | .39    |
| 12888    | ◆     | CD4027*     | DIP-16  | Dual J-K master/slave flip-flop .....    | .35    | .29    | .25    |
| 12909    | ◆     | CD4028      | DIP-16  | BCD-to-decimal decoder .....             | .29    | .25    | .22    |
| 12925    | ◆     | CD4029      | DIP-16  | Preset up/down binary counter .....      | .35    | .29    | .25    |

\*10 pcs./\*\*20 pcs. in 4000 series IC cabinet kit, right

## 4000 Series (Continued)

\*Web Code: WAA

| Part No. | *Mfr. | Product No.   | Pkg.    | Description                             | 1      | 10     | 100    |
|----------|-------|---------------|---------|---|--------|--------|--------|
| 12950    | ◆     | CD4040*       | DIP-16  | 12-stage binary/ripple counter ....     | \$ .35 | \$ .29 | \$ .25 |
| 12992    | ◆     | CD4043        | DIP-16  | Tri-state quad NOR R/S latch .....      | .39    | .35    | .29    |
| 13004    | ◆     | CD4044        | DIP-16  | Quad NAND R/S latch .....               | .39    | .35    | .29    |
| 13012    | ◆     | CD4046*       | DIP-16  | Micropower phase lock loop .....        | .39    | .35    | .29    |
| 13039    | ◆     | CD4047        | DIP-14  | Monostable/astable multivibrator ...    | .35    | .29    | .25    |
| 894331   | TI    | CD4047BE      | DIP-14  | Monostable/astable multivibrator ...    | .49    | .45    | .39    |
| 13055    | ◆     | CD4049**      | DIP-16  | Hex inverting buffer/converter .....    | .29    | .25    | .22    |
| 13071    | ◆     | CD4050*       | DIP-16  | Hex non-inverting buffer/converter ..   | .29    | .25    | .22    |
| 13098    | ◆     | CD4051*       | DIP-16  | Single 8-channel analog multiplexer ..  | .35    | .29    | .25    |
| 894391   | TI    | CD4051BE      | DIP-16  | Single 8-channel analog multiplexer ..  | .39    | .35    | .29    |
| 13119    | ◆     | CD4052        | DIP-16  | Dual 4-channel analog multiplexer ...   | .35    | .29    | .25    |
| 13127    | ◆     | CD4053        | DIP-16  | Triple 2-channel analog multiplexer ..  | .35    | .29    | .25    |
| 818259   | TI    | CD4059AE      | DIP-24  | Programmable divide-by-N counter        | 1.75   | 1.49   | 1.25   |
| 13151    | ◆     | CD4060        | DIP-16  | 14-stage ripple carry binary counter .. | .29    | .25    | .22    |
| 13186    | ◆     | CD4066**      | DIP-14  | Quad bilateral switch .....             | .35    | .29    | .25    |
| 13215    | ◆     | CD4067        | DIP-24  | Single 16-channel analog multiplexer    | 1.09   | .99    | .89    |
| 13231    | ◆     | CD4069**      | DIP-14  | Hex inverters (74C04) .....             | .29    | .25    | .22    |
| 13258    | ◆     | CD4070*       | DIP-14  | Quad 2-input exclusive OR gate ....     | .35    | .29    | .25    |
| 13274    | ◆     | CD4071*       | DIP-14  | Quad 2-input OR gate .....              | .29    | .25    | .22    |
| 676086   | ◆     | CD4073        | DIP-14  | Triple 3-input AND gate .....           | .29    | .25    | .22    |
| 676094   | ◆     | CD4075        | DIP-14  | Triple 3-input OR gate .....            | .39    | .35    | .29    |
| 676107   | ◆     | CD4077        | DIP-14  | Quad exclusive NOR gate .....           | .35    | .29    | .25    |
| 676115   | ◆     | CD4078        | DIP-14  | 8-input NOR/OR gate .....               | .35    | .29    | .25    |
| 13354    | ◆     | CD4081*       | DIP-14  | Quad 2-input AND gate .....             | .29    | .25    | .22    |
| 676123   | ◆     | CD4082        | DIP-14  | Dual 4-input AND gate .....             | .39    | .35    | .29    |
| 13400    | ◆     | CD4093*       | DIP-14  | Quad 2-input NAND schmitt trigger ..    | .29    | .25    | .22    |
| 818902   | TI    | CD4093BQM96Q1 | SOIC-14 | Quad 2-input NAND schmitt trigger ..    | .35    | .25    | .19    |
| 870807   | FSC   | CD4093BCN     | DIP-14  | Quad 2-input NAND schmitt trigger ..    | .59    | .49    | .45    |
| 818873   | TI    | CD4093BE      | DIP-14  | CMOS 2-input NAND Gate .....            | .45    | .39    | .35    |
| 13426    | ◆     | CD4094        | DIP-16  | 8-bit shift register with latch .....   | .35    | .29    | .25    |
| 13485    | ◆     | CD4510        | DIP-16  | BCD presetable up/down counter ..       | .39    | .35    | .29    |
| 13493    | ◆     | CD4511*       | DIP-16  | BCD-to-7 segment latch/decoder/driver   | .35    | .29    | .25    |
| 895377   | TI    | CD4511BE      | DIP-16  | BCD-to-7 segment latch/decoder/driver   | .39    | .35    | .29    |
| 13522    | ◆     | CD4514        | DIP-24  | 4-bit latch/line decoder .....          | .99    | .89    | .69    |
| 13549    | ◆     | CD4516        | DIP-16  | Binary up/down counter .....            | .45    | .35    | .29    |
| 13565    | ◆     | CD4518        | DIP-16  | Dual BCD up counter .....               | .39    | .29    | .25    |
| 13581    | ◆     | CD4520        | DIP-16  | Dual binary up counter .....            | .35    | .29    | .25    |
| 13602    | ◆     | CD4526        | DIP-16  | Binary divide-by-N counter .....        | .39    | .29    | .19    |
| 13611    | ◆     | CD4528        | DIP-16  | Dual monostable multivibrator .....     | .45    | .39    | .35    |
| 13653    | ◆     | CD4538*       | DIP-16  | Dual monostable multivibrator .....     | .45    | .35    | .29    |
| 13688    | ◆     | CD4541        | DIP-14  | Programmable timer .....                | .29    | .25    | .15    |
| 13696    | ◆     | CD4543*       | DIP-16  | BCD to 7-segment decoder driver ..      | .45    | .35    | .29    |
| 947982   | FSS   | MC14553BCPG   | DIP-16  | 3-digit BCD decoder .....               | 2.09   | 1.95   | 1.75   |
| 13709    | ◆     | CD4553        | DIP-16  | 3-digit BCD counter .....               | 1.75   | 1.59   | 1.45   |
| 13768    | ◆     | CD4584*       | DIP-14  | Hex schmitt trigger .....               | .35    | .29    | .25    |
| 676473   | ◆     | CD40102       | DIP-16  | 2-decade BCD 8-stage sync down counter  | .29    | .25    | .22    |
| 44257    | ◆     | CD40106       | DIP-14  | Hex schmitt trigger .....               | .79    | .69    | .59    |
| 785071   | FSC   | CD40106BCN    | DIP-14  | Hex schmitt trigger .....               | .49    | .45    | .35    |
| 676502   | ◆     | CD40110       | DIP-16  | Decade up/down counter .....            | 1.25   | 1.05   | .85    |

\*10 pcs./\*\*20 pcs. in 4000 series IC cabinet kit, below

## 4000 Series CMOS IC Kit

SAVE \$25

Includes: 20-drawer component cabinet (319600), 20 clear plastic drawers (319601), 20 clear dividers (319611), pg 173 and 30 adhesive labels for drawers to identify parts in kit

10 each: CD4015, CD4016, CD4017, CD4020, CD4023, CD4024, CD4027, CD4040, CD4046, CD4050, CD4051, CD4069, CD4070, CD4071, CD4081, CD4093, CD4511, CD4538, CD4543, CD4584

20 each: CD4001, CD4011, CD4013, CD4049, CD4066

| Part No. | Description                      | Wt. (lbs.) | 1       | 5       |
|----------|----------------------------------|------------|---------|---------|
| 84970    | 300 pcs. 4000 series CMOS IC kit | 6.1        | \$79.95 | \$69.95 |
| 130403   | Refill for 84970 (300 pcs.)      | 1.4        | 64.95   | 59.95   |

\*FSC = Fairchild Semiconductor | FSS = Free Scale Semiconductor | TI = Texas Instruments | ◆ Manufacturer Varies

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 197.





## 5000 Series & Clock Chips

★ Web Code: RAE

| Part No. | *Mfr. | Product No. | Pkg.   | Description                     | 1      | 10     |
|----------|-------|-------------|--------|---------------------------------|--------|--------|
| 32803    | ◆     | TCM5089N    | DIP-16 | Touch tone generator            | \$4.95 | \$4.49 |
| 26091    | ◆     | MM5321N     | DIP-16 | TV camera synchronous generator | 4.95   | 3.95   |
| 26171    | ◆     | MM5450N     | DIP-40 | LED display driver              | 3.95   | 3.75   |
| 27422    | ◆     | LM555CN★    | DIP-8  | Timer                           | .25    | .22    |
| 126797   | ◆     | LMC555CN★   | DIP-8  | CMOS timer                      | .79    | .69    |
| 24328    | ◆     | LM556N★     | DIP-14 | Dual timer                      | .29    | .25    |
| 95531    | ◆     | RTC72421B   | DIP-18 | Real time clock                 | 8.95   | 7.95   |
| 25101    | ◆     | MC146818★   | DIP-24 | Real time clock with RAM        | 8.95   | 7.95   |
| 10567    | AMD   | AM9513APC★  | DIP-40 | Real time clock                 | 34.95  | 31.95  |

\* 10 pcs./\*\* 20 pcs. in Linear series IC cabinet kit, pg 16 ★ Pull = Extra Savings

★ Delay Lines Available Online — Enter Web Code EEU

★ Quick Switches Available Online — Enter Web Code FAH

★ EconoResets Available Online — Enter Web Code YFE

## 6500 Series

Please Note: Manufacturer may vary

★ Web Code: NAG

| Part No. | Product No. | Pkg.   | Description                           | 1      | 10     |
|----------|-------------|--------|---------------------------------------|--------|--------|
| 43191    | 6502★       | DIP-40 | CPU, 8-bit, 1MHz                      | \$5.95 | \$5.49 |
| 43166    | 65C02★      | DIP-40 | CPU, 8-bit, 1MHz                      | 5.95   | 5.49   |
| 43254    | 6522★       | DIP-40 | Versatile interface adapter, 1MHz     | 5.95   | 5.49   |
| 43297    | 6532★       | DIP-40 | RAM I/O timer, 1MHz                   | 7.95   | 7.25   |
| 43318    | 6551★       | DIP-28 | Asynch. comm. interface adapter, 1MHz | 3.95   | 3.75   |

★ Pull = Extra Savings



## 6800/68000 CMOS

★ Web Code: SBP

| Part No. | *Mfr. | Product No.    | Pkg.    | Description              | 1      | 10     |
|----------|-------|----------------|---------|--------------------------|--------|--------|
| 248604   | ◆     | MC68HC11E1CFN3 | PLCC-52 | MCU, 8-bit, 38 I/O, 3MHz | \$9.95 | \$8.95 |
| 248583   | ◆     | MC68HC11F1CFN3 | PLCC-68 | MCU, 8-bit, 30 I/O, 3MHz | 10.95  | 9.95   |
| 108919   | ◆     | MC68HC705C8P   | DIP-40  | MCU, 8-bit, 24 I/O, 4MHz | 8.95   | 7.95   |
| 132484   | ◆     | MC68HC705C8S   | DIP-40  | MCU, 8-bit, 24 I/O, 4MHz | 15.95  | 11.95  |
| 132530   | ◆     | MC68HC705J1ACP | DIP-20  | MCU, 8-bit, 14 I/O, 4MHz | 3.75   | 3.49   |
| 248575   | ◆     | MC68HC71E9CFN2 | PLCC-52 | MCU, 8-bit, 38 I/O, 2MHz | 18.95  | 16.95  |
| 323213   | ◆     | MC68HC908GR8CP | DIP-28  | MCU, 8-bit, 21 I/O, 8MHz | 5.95   | 4.49   |

## 6800/68000 N-MOS

★ Web Code: PAG

| Part No. | *Mfr. | Product No. | Pkg.   | Description                               | 1      | 10     |
|----------|-------|-------------|--------|---|--------|--------|
| 43481    | ◆     | 6800★       | DIP-40 | CPU, 8-bit, 5V, 2MHz                      | \$5.95 | \$4.95 |
| 43502    | ◆     | 6802★       | DIP-40 | CPU, 8-bit, 5V, 1MHz                      | 9.95   | 8.95   |
| 43529    | ◆     | 6803★       | DIP-40 | CPU, 8-bit, 5V, 1MHz                      | 6.95   | 5.95   |
| 43537    | ◆     | 6808★       | DIP-40 | CPU, 8-bit, 7V, 1MHz                      | 7.95   | 7.25   |
| 43545    | ◆     | 6809E★      | DIP-40 | CPU, 8-bit, 7V, 1MHz                      | 3.95   | 3.49   |
| 320590   | ◆     | 68B09E★     | DIP-40 | CPU, 8-bit, 7V, 2MHz                      | 4.95   | 4.49   |
| 43561    | ◆     | 6810★       | DIP-24 | SRAM, 1K-bit, 5V, 1MHz                    | 2.95   | 2.75   |
| 43596    | ◆     | 6821★       | DIP-40 | Peripheral inter. adptr, 8-bit, 7V, 1MHz  | 3.95   | 3.49   |
| 43414    | ◆     | 68B21★      | DIP-40 | Peripheral inter. adptr, 8-bit, 7V, 1MHz  | 4.95   | 4.49   |
| 43617    | ◆     | 6840★       | DIP-28 | Programmable timer, 16-bit, 5V, 6MHz      | 2.95   | 2.75   |
| 43633    | ◆     | 6850★       | DIP-24 | Asynch. comm. int. adptr, 8-bit, 7V, 1MHz | 4.49   | 3.95   |
| 25304    | ◆     | MC68000L8★  | DIP-64 | CPU, 16-bit, 7V, 8MHz                     | 8.95   | 7.95   |
| 25291    | ◆     | MC68000L10★ | DIP-64 | CPU, 16-bit, 7V, 10MHz                    | 9.95   | 8.95   |
| 25355    | ◆     | MC68701★    | DIP-40 | MCU, 8-bit, 29 I/O, 2MHz                  | 14.95  | 12.95  |
| 25363    | MOT   | MC68705P3S★ | DIP-28 | MCU, 8-bit, 20 I/O, 4MHz                  | 24.95  | 22.95  |
| 25371    | MOT   | MC68705U3S★ | DIP-40 | MCU, 8-bit, 20 I/O, 4MHz                  | 24.95  | 22.95  |

★ Pull = Extra Savings

## 8000 Series

Please Note: Manufacturer may vary

| Part No. | Product No. | Pkg.   | Description                     | 1      | 10     | 100    |
|----------|-------------|--------|---------------------------------|--------|--------|--------|
| 51844    | 8031★       | DIP-40 | MCU, 8-bit, 32 I/O, 8MHz        | \$3.49 | \$3.25 | \$2.95 |
| 51676    | 80C31★      | DIP-40 | MCU, 8-bit, 32 I/O, 24MHz, CMOS | 3.75   | 3.45   | 2.95   |

★ Pull = Extra Savings

## 8000 Series (Continued)

Please Note: Manufacturer may vary

| Part No. | Product No. | Pkg.   | Description                             | 1      | 10     | 100    |
|----------|-------------|--------|---|--------|--------|--------|
| 876096   | P80C31BH-1  | DIP-40 | MCU, 8-bit, 32 I/O, 16MHz, CMOS         | \$3.75 | \$3.45 | \$2.95 |
| 102197   | 8032★       | DIP-40 | CPU, 8-bit, 32 I/O, 12MHz               | 3.95   | 3.49   | 2.95   |
| 108804   | 80C32-1★    | DIP-40 | MCU, 8-bit, 32 I/O, 12MHz, CMOS         | 4.25   | 3.75   | 3.49   |
| 51861    | 8035★       | DIP-40 | CPU, 8-bit, 27 I/O, 11MHz               | 3.95   | 3.49   | 2.95   |
| 51959    | 8039★       | DIP-40 | CPU, 8-bit, 27 I/O, 6MHz                | 3.95   | 3.49   | 2.95   |
| 51692    | 80C39★      | DIP-40 | MCU, 8-bit, 27 I/O, 11MHz, CMOS         | 4.25   | 3.75   | 3.25   |
| 51983    | 8049★       | DIP-40 | CPU, 8-bit, 27 I/O, 6MHz                | 2.95   | 2.75   | 2.49   |
| 51991    | 8051AP★**   | DIP-40 | MCU, 8-bit, 27 I/O, 11MHz               | 4.95   | 4.49   | 3.95   |
| 125647   | 80C52BASIC  | DIP-40 | MCU, 8-bit, 32 I/O, 12MHz, CMOS         | 33.95  | 31.95  | 29.95  |
| 52046    | 8080A★      | DIP-40 | CPU, 8-bit, 32 I/O, 1MHz                | 5.49   | 4.95   | 4.25   |
| 52062    | 8085AH★     | DIP-40 | CPU, 8-bit, 16 I/O, 3MHz                | 4.95   | 4.49   | 3.25   |
| 52071    | 8085AH-2★   | DIP-40 | CPU, 8-bit, 16 I/O, 5MHz                | 5.49   | 4.95   | 3.95   |
| 51705    | 80C85A-2★   | DIP-40 | CPU, 8-bit, 16 I/O, 5MHz, CMOS          | 5.95   | 5.49   | 4.95   |
| 52100    | 8086-2★     | DIP-40 | CPU, 8-bit, 32 I/O, 8MHz                | 1.95   | 1.75   | 1.49   |
| 52142    | 8088★       | DIP-40 | CPU, 8-bit, 16 I/O, 5MHz                | 2.95   | 2.75   | 2.49   |
| 52169    | 8088-2★     | DIP-40 | CPU, 8-bit, 16 I/O, 8MHz                | 3.95   | 3.49   | 2.95   |
| 34358    | UPD70108-8★ | DIP-40 | CPU, 8-bit, 16 I/O, 8MHz                | 9.98   | 8.95   | 6.95   |
| 52290    | 8155★       | DIP-40 | I/O port timer, 2K-bit, 3MHz            | 3.95   | 3.49   | 2.95   |
| 52302    | 8155-2★     | DIP-40 | Static MOS RAM, 2K-bit, 3 I/O, 5MHz     | 4.95   | 4.49   | 3.25   |
| 52193    | 81C55★      | DIP-40 | I/O port timer, 2K-bit, 3MHz, CMOS      | 4.95   | 4.49   | 3.95   |
| 52468    | 8212★       | DIP-24 | I/O port timer, 8-bit, 3MHz             | 5.95   | 5.49   | 4.95   |
| 52484    | 8216        | DIP-16 | Bi-directional bus driver (non-invert.) | 3.95   | 3.49   | 2.95   |
| 52492    | 8224★       | DIP-16 | Clock generator/driver                  | 3.95   | 3.49   | 2.95   |
| 52513    | 8228★       | DIP-28 | System controller/bus driver            | 3.95   | 3.75   | 3.49   |
| 52581    | 8243★       | DIP-24 | I/O expander, 5V, MIL. temp             | 5.49   | 4.95   | 3.25   |
| 52644    | 8251◆       | DIP-28 | USART                                   | 2.75   | 2.49   | 2.25   |
| 52652    | 8251A★      | DIP-28 | Prog. communications interface          | 3.95   | 3.49   | 2.95   |
| 52370    | 82C51A★     | DIP-28 | USART, 3V to 6V, CMOS                   | 3.95   | 3.49   | 2.95   |
| 52679    | 8253★       | DIP-24 | Prog. interval timer, 2MHz              | 1.95   | 1.49   | 1.25   |
| 52687    | 8253-5★     | DIP-24 | Prog. interval timer, 5MHz              | 3.49   | 3.25   | 2.75   |
| 52388    | 82C53-5★    | DIP-24 | Prog. interval timer, 8MHz, CMOS        | 2.95   | 2.25   | 1.75   |
| 52708    | 8254★       | DIP-24 | Prog. interval timer, 8MHz              | 4.49   | 3.95   | 3.49   |
| 52716    | 8254-2★     | DIP-24 | Prog. interval timer, 10MHz             | 4.95   | 4.49   | 3.95   |
| 52396    | 82C54★      | DIP-24 | Prog. interval timer, 8MHz, CMOS        | 4.95   | 4.49   | 3.95   |
| 52409    | 82C54-2★    | DIP-24 | Prog. interval timer, 10MHz, CMOS       | 4.95   | 4.49   | 3.95   |
| 52724    | 8255★       | DIP-40 | CPU peripheral, 2MHz                    | 4.49   | 3.95   | 3.49   |
| 52732    | 8255A-5★    | DIP-40 | CPU peripheral, 5MHz                    | 4.75   | 4.25   | 3.75   |
| 291805   | 8255AC-5◆   | DIP-40 | CPU peripheral, 4MHz                    | 4.75   | 4.25   | 3.75   |
| 52417    | 82C55A★     | DIP-40 | CPU peripheral, 8MHz, CMOS              | 4.95   | 4.49   | 3.95   |
| 52425    | 82C55A-5★   | DIP-40 | CPU peripheral, 5MHz, CMOS              | 4.95   | 4.49   | 3.95   |
| 52759    | 8256★       | DIP-40 | Multi func. uproc. support controller   | 17.95  | 15.95  | 13.95  |
| 52775    | 8259★       | DIP-28 | Prog. interrupt controller              | 1.95   | 1.75   | 1.49   |
| 52839    | 8279★       | DIP-40 | CPU peripheral, 5MHz                    | 10.95  | 9.95   | 7.95   |
| 52847    | 8279-5★     | DIP-40 | CPU peripheral, 5MHz                    | 12.95  | 11.95  | 10.95  |
| 52855    | 8282★       | DIP-20 | Octal latch bus driver                  | 4.95   | 4.49   | 3.95   |
| 52871    | 8284A★      | DIP-18 | Clock generator/driver, 8MHz            | 4.95   | 4.49   | 3.95   |
| 2082020  | N8284A      | DIP-18 | Up/down counter                         | 2.95   | 1.95   | 1.49   |
| 52898    | 8286★       | DIP-20 | Octal bus transceiver                   | 4.95   | 4.49   | 3.95   |
| 52901    | 8287★       | DIP-20 | Octal bus transceiver                   | 9.95   | 8.95   | 7.95   |
| 52919    | 8288        | DIP-20 | Bus controller (UPD71088)               | 1.95   | 1.75   | 1.49   |
| 53022    | 8748◆       | DIP-40 | CPU, 8-bit, 27 I/O, 11MHz               | 10.95  | 9.95   | 8.95   |
| 53031    | 8748H◆      | DIP-40 | CPU, 8-bit, 27 I/O, 11MHz               | 12.95  | 11.95  | 8.95   |
| 53057    | 8749H◆      | DIP-40 | CPU, 8-bit, 27 I/O, 11MHz               | 15.95  | 14.95  | 12.95  |
| 53073    | 8751        | DIP-40 | MCU, 8-bit, 32 I/O, 8MHz                | 12.95  | 10.95  | 9.95   |
| 53081    | 8751H◆      | DIP-40 | MCU, 8-bit, 32 I/O, 12MHz               | 15.95  | 14.95  | 12.95  |
| 52978    | 87C51★      | DIP-40 | MCU, 8-bit, 32 I/O, 33MHz, CMOS         | 15.95  | 14.95  | 12.95  |
| 196120   | P87C51      | DIP-40 | MCU, 8-bit, 32 I/O, 24MHz, CMOS         | 4.95   | 4.49   | 3.95   |
| 53090    | 8755        | DIP-40 | EPROM with I/O                          | 6.95   | 4.95   | 3.95   |

\* 8049 (ROM not available for use) Tie pin 7 high to bypass the internal ROM to convert 8049 to 8039

\*\* Tie pin 31 low to bypass the internal ROM ★ Pull = Extra Savings ◆ Refurbished = Backed by Jameco

★ AMD = Advanced Micro | MOT = Motorola | ◆ Manufacturer Varies

★ For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

# Z80, UARTs & EPROMs

3 LEVELS OF SAVINGS  
NAME BRANDS HOUSE BRANDS FACTORY OVERRUN

## Z80 MPUs

Please Note: Manufacturer may vary

★ Web Code: JAF

| Part No. | Product No.  | Pkg.    | Description   | 1      | 10     |
|----------|--------------|---------|---|--------|--------|
| 35561    | Z80★         | DIP-40  | 2.5MHz CPU (MK3880N/780C) .....                     | \$1.95 | \$1.75 |
| 35596    | Z80A★        | DIP-40  | 4MHz CPU (MK3880N-4/780C-1) .....                   | 2.05   | 1.85   |
| 35609    | Z80A-CTC★    | DIP-28  | 4MHz counter timer circuit (MK3882-4) .....         | 2.49   | 2.25   |
| 35625    | Z80A-DART★   | DIP-40  | 4MHz dual asynchronous receiver/trans .....         | 2.49   | 2.25   |
| 35641    | Z80A-PIO★    | DIP-40  | 4MHz parallel I/O interf. contr. (MK3881-4) .....   | 2.05   | 1.85   |
| 35668    | Z80A-SIO/O★  | DIP-40  | 4MHz serial I/O, TxCB & RxCB bond. (MK3884-4) ..... | 2.49   | 2.25   |
| 35705    | Z80B★        | DIP-40  | 6MHz CPU (MK3880N-6) .....                          | 2.49   | 2.25   |
| 35781    | Z84C00-4★    | DIP-40  | 4MHz CPU (Z84C0004PEC) CMOS .....                   | 4.49   | 3.95   |
| 35799    | Z8530★       | DIP-40  | 2MHz serial communications controller .....         | .75    | .49    |
| 280479   | Z8S18020PSC  | DIP-64  | Z180 MPU, MMU, DMA, UART, INTC .....                | 9.95   | 8.95   |
| 280516   | Z84C0008PEC★ | DIP-40  | Z80 CPU with 3 mode int., 16 regs. ....             | 3.95   | 3.75   |
| 61786    | Z85C3008PS★  | DIP-40  | Serial communications controller .....              | 4.49   | 3.95   |
| 281308   | Z85C3016PSC  | DIP-40  | Serial communications controller .....              | 7.95   | 6.95   |
| 280436   | Z8018008PSC  | DIP-64  | Z180 MPU, MMU, DMA, UART, INTC .....                | 4.95   | 4.49   |
| 280452   | Z8018010PSC  | DIP-64  | Z180 MPU, MMU, DMA, UART, INTC .....                | 6.95   | 5.75   |
| 281324   | Z8523016VSC  | PLCC-44 | Enhanced serial communications controller .....     | 11.95  | 10.95  |

★ Pull = Extra Savings

## UARTs

Please Note: Manufacturer may vary

★ Web Code: MAG

| Part No. | Product No. | Pkg.    | Description                         | 1      | 10     |
|----------|-------------|---------|-------------------------------------|--------|--------|
| 43158    | 6402★       | DIP-40  | 5V CMOS .....                       | \$6.95 | \$5.95 |
| 27570    | NS16C450N★  | DIP-40  | Asynch. comm. element, 5V .....     | 2.95   | 2.75   |
| 27596    | NS16550AN★  | DIP-40  | Asynch. comm. element, 5V .....     | 3.95   | 2.95   |
| 288809   | TL16C550CN  | DIP-40  | 1-channel w/ 16-byte FIFO, 5V ..... | 3.95   | 3.49   |
| 288841   | TL16C554FN  | PLCC-68 | 4-channel w/ 16-byte FIFO, 5V ..... | 8.95   | 6.95   |
| 288876   | TL16C750FN  | PLCC-44 | 1-channel w/ 64-byte FIFO, 5V ..... | 4.95   | 4.49   |
| 288905   | TL16C754BFN | PLCC-68 | 4-channel w/ 64-byte FIFO, 5V ..... | 11.95  | 9.95   |

★ Pull = Extra Savings

## EPROMs

★ Web Code: XAF

| Part No. | *Mfr. | Product No.  | Pkg.†   | Config. | Description            | 1      | 10     | 100    |
|----------|-------|--------------|---------|---------|------------------------|--------|--------|--------|
| 39909    | ♦     | 2708♦        | DIP-24  | 1k x 8  | 450ns, 5V .....        | \$3.95 | \$3.75 | \$3.49 |
| 33611    | ♦     | TMS2716♦     | DIP-24  | 2k x 8  | 450ns, 5V .....        | 2.95   | 2.75   | 2.49   |
| 40002    | ♦     | 2716♦        | DIP-24  | 2k x 8  | 450ns, 5V .....        | 3.95   | 3.75   | 3.49   |
| 308662   | ♦     | 2716A-2      | DIP-24  | 2k x 8  | 200ns, 5V .....        | 3.95   | 3.75   | 3.49   |
| 40011    | ♦     | 2716-1♦      | DIP-24  | 2k x 8  | 350ns, 5V .....        | 4.49   | 3.95   | 3.75   |
| 33591    | ♦     | TMS2532♦     | DIP-24  | 4k x 8  | 450ns, 5V .....        | 3.95   | 3.75   | 3.49   |
| 40096    | ♦     | 2732♦        | DIP-24  | 4k x 8  | 450ns, 5V .....        | 5.95   | 5.49   | 3.95   |
| 40133    | ♦     | 2732A-45♦    | DIP-24  | 4k x 8  | 450ns, 5V .....        | 3.95   | 3.75   | 3.49   |
| 40125    | ♦     | 2732A-25♦    | DIP-24  | 4k x 8  | 250ns, 5V .....        | 4.95   | 4.49   | 3.95   |
| 114876   | ♦     | 2732B♦       | DIP-24  | 4k x 8  | 450ns, 5V .....        | 3.95   | 3.75   | 3.49   |
| 40109    | ♦     | 2732A-20♦    | DIP-24  | 4k x 8  | 200ns, 5V .....        | 5.49   | 4.95   | 4.49   |
| 266001   | ♦     | 27C32-150♦   | DIP-24  | 4k x 8  | 150ns, 5V .....        | 5.95   | 5.49   | 4.95   |
| 40205    | ♦     | 2764-25♦     | DIP-28  | 8k x 8  | 250ns, 5V .....        | 3.95   | 3.75   | 3.49   |
| 40192    | ♦     | 2764-20♦     | DIP-28  | 8k x 8  | 200ns, 5V .....        | 4.25   | 3.95   | 3.75   |
| 40248    | ♦     | 2764A-25♦    | DIP-28  | 8k x 8  | 250ns, 5V .....        | 3.95   | 3.75   | 3.49   |
| 40230    | ♦     | 2764A-20♦    | DIP-28  | 8k x 8  | 200ns, 5V .....        | 4.25   | 3.95   | 3.75   |
| 698322   | ST    | M27C64A-15F1 | FDIP-28 | 8k x 8  | 150ns, 5V (±10%) ..... | 5.95   | 5.49   | 5.25   |
| 39845    | ♦     | 27C64-25♦    | DIP-28  | 8k x 8  | 250ns, 5V .....        | 3.49   | 3.25   | 2.95   |
| 74608    | ♦     | 27C64-20♦    | DIP-28  | 8k x 8  | 200ns, 5V .....        | 3.75   | 3.49   | 3.25   |
| 39829    | ♦     | 27C64-15♦    | DIP-28  | 8k x 8  | 150ns, 5V .....        | 4.25   | 3.95   | 3.75   |
| 105304   | ♦     | 27C64-12♦    | DIP-28  | 8k x 8  | 120ns, 5V .....        | 4.75   | 4.49   | 3.95   |
| 266036   | ♦     | 27C64-100    | DIP-28  | 8k x 8  | 100ns, 5V .....        | 4.95   | 4.55   | 4.05   |
| 39933    | ♦     | 27128-25♦    | DIP-28  | 16k x 8 | 250ns, 5V .....        | 2.95   | 2.25   | 1.75   |
| 39984    | ♦     | 27128A-25♦   | DIP-28  | 16k x 8 | 250ns, 5V .....        | 3.95   | 3.75   | 3.49   |
| 39968    | ♦     | 27128A-20♦   | DIP-28  | 16k x 8 | 200ns, 5V .....        | 4.25   | 3.95   | 3.55   |
| 39950    | ♦     | 27128A-15♦   | DIP-28  | 16k x 8 | 150ns, 5V .....        | 4.49   | 4.25   | 3.95   |
| 39685    | ♦     | 27C128-25♦   | DIP-28  | 16k x 8 | 250ns, 5V .....        | 3.75   | 3.49   | 3.25   |
| 101101   | ♦     | 27C128-20♦   | DIP-28  | 16k x 8 | 200ns, 5V .....        | 3.95   | 3.75   | 3.49   |
| 39677    | ♦     | 27C128-15♦   | DIP-28  | 16k x 8 | 150ns, 5V .....        | 4.25   | 3.95   | 3.75   |
| 87935    | ♦     | 27C128-12♦   | DIP-28  | 16k x 8 | 120ns, 5V .....        | 4.49   | 4.25   | 3.95   |

♦ Refurbished = Backed by Jameco † FDIP = Ceramic frit seal

## EPROMs (Continued)

★ Web Code: XAF

| Part No. | *Mfr. | Product No.    | Pkg.†   | Config.   | Description             | 1      | 10     | 100    |
|----------|-------|----------------|---------|-----------|-------------------------|--------|--------|--------|
| 266061   | ♦     | 27C128-10      | DIP-28  | 16k x 8   | 100ns, 5V .....         | \$4.75 | \$4.49 | \$4.25 |
| 149665   | ♦     | 27C128-70      | DIP-28  | 16k x 8   | 70ns, 5V .....          | 4.95   | 4.75   | 4.49   |
| 40045    | ♦     | 27256-20♦      | DIP-28  | 32k x 8   | 200ns, 5V .....         | 2.55   | 2.25   | 1.95   |
| 40037    | ♦     | 27256-15♦      | DIP-28  | 32k x 8   | 150ns, 5V .....         | 3.49   | 3.25   | 2.95   |
| 39731    | ♦     | 27C256-25♦     | DIP-28  | 32k x 8   | 250ns, 5V .....         | 2.35   | 2.15   | 1.85   |
| 39722    | ♦     | 27C256-20♦     | DIP-28  | 32k x 8   | 200ns, 5V .....         | 2.55   | 2.25   | 1.95   |
| 39714    | ♦     | 27C256-15♦     | DIP-28  | 32k x 8   | 150ns, 5V .....         | 2.75   | 2.49   | 2.25   |
| 698111   | ST    | M27C256B-15F1  | FDIP-28 | 32k x 8   | 150ns, 5V .....         | 3.95   | 3.49   | 3.25   |
| 65904    | ♦     | 27C256-12♦     | DIP-28  | 32k x 8   | 120ns, 5V .....         | 3.49   | 2.95   | 2.75   |
| 698091   | ST    | M27C256B-12F1  | FDIP-28 | 32k x 8   | 120ns, 5V, C-temp ..... | 4.25   | 3.75   | 3.49   |
| 698103   | ST    | M27C256B-12F6  | FDIP-28 | 32k x 8   | 120ns, 5V, I-temp ..... | 3.95   | 3.49   | 3.25   |
| 112740   | ♦     | 27C256-10♦     | DIP-28  | 32k x 8   | 100ns, 5V .....         | 3.75   | 3.25   | 2.95   |
| 698082   | ST    | M27C256B-10F1  | FDIP-28 | 32k x 8   | 100ns, 5V .....         | 4.49   | 3.95   | 3.59   |
| 140476   | ♦     | 27C256-70♦     | DIP-28  | 32k x 8   | 70ns, 5V .....          | 4.75   | 4.49   | 3.95   |
| 266079   | ♦     | 27C256-55      | DIP-28  | 32k x 8   | 55ns, 5V .....          | 4.95   | 4.75   | 4.49   |
| 40168    | ♦     | 27512-25♦      | DIP-28  | 64k x 8   | 250ns, 5V .....         | 2.25   | 1.95   | 1.75   |
| 40150    | ♦     | 27512-20♦      | DIP-28  | 64k x 8   | 200ns, 5V .....         | 2.49   | 2.25   | 1.95   |
| 39802    | ♦     | 27C512-25♦     | DIP-28  | 64k x 8   | 250ns, 5V .....         | 2.25   | 1.95   | 1.75   |
| 39790    | ♦     | 27C512-20♦     | DIP-28  | 64k x 8   | 200ns, 5V .....         | 2.49   | 2.25   | 1.95   |
| 39781    | ♦     | 27C512-15♦     | DIP-28  | 64k x 8   | 150ns, 5V .....         | 2.75   | 2.49   | 2.25   |
| 39773    | ♦     | 27C512-12♦     | DIP-28  | 64k x 8   | 120ns, 5V .....         | 2.95   | 2.75   | 2.49   |
| 698226   | ST    | M27C512-12F1   | FDIP-28 | 64k x 8   | 120ns, 5V .....         | 3.49   | 3.25   | 3.05   |
| 131959   | ♦     | 27C512-10♦     | DIP-28  | 64k x 8   | 100ns, 5V .....         | 3.25   | 2.95   | 2.75   |
| 175206   | ♦     | 27C512-90♦     | DIP-28  | 64k x 8   | 90ns, 5V .....          | 3.49   | 3.25   | 2.95   |
| 203625   | ♦     | 27C512-70      | DIP-28  | 64k x 8   | 70ns, 5V .....          | 3.95   | 3.75   | 3.49   |
| 203617   | ♦     | 27C512-45      | DIP-28  | 64k x 8   | 45ns, 5V .....          | 4.25   | 3.95   | 3.75   |
| 203641   | ♦     | 27C1024-12     | DIP-40  | 64k x 16  | 120ns, 5V .....         | 4.95   | 4.75   | 4.49   |
| 118148   | ♦     | 27C1024-15     | DIP-40  | 64k x 16  | 150ns, 5V .....         | 4.49   | 4.25   | 3.95   |
| 39669    | ♦     | 27C010-20♦     | DIP-32  | 128k x 8  | 200ns, 5V .....         | 3.25   | 2.95   | 2.49   |
| 39651    | ♦     | 27C010-15♦     | DIP-32  | 128k x 8  | 150ns, 5V .....         | 3.49   | 3.25   | 2.95   |
| 697987   | ST    | M27C1001-15F1  | FDIP-32 | 128k x 8  | 150ns, 5V .....         | 4.95   | 4.75   | 4.49   |
| 74624    | ♦     | 27C010-12♦     | DIP-32  | 128k x 8  | 120ns, 5V .....         | 2.39   | 2.25   | 1.45   |
| 697961   | ST    | M27C1001-12F1  | FDIP-32 | 128k x 8  | 120ns, 5V .....         | 4.49   | 4.25   | 3.95   |
| 79231    | ♦     | 27C010-10♦     | DIP-32  | 128k x 8  | 100ns, 5V .....         | 3.95   | 3.75   | 3.49   |
| 697944   | ST    | M27C1001-10F1  | FDIP-32 | 128k x 8  | 100ns, 5V .....         | 4.75   | 4.49   | 4.25   |
| 137699   | ♦     | 27C010-80♦     | DIP-32  | 128k x 8  | 80ns, 5V .....          | 4.49   | 4.25   | 3.55   |
| 146149   | ♦     | 27C010-70♦     | DIP-32  | 128k x 8  | 70ns, 5V .....          | 4.25   | 3.95   | 3.75   |
| 698007   | ST    | M27C1001-70F1  | FDIP-32 | 128k x 8  | 70ns, 5V .....          | 4.75   | 4.49   | 4.25   |
| 266095   | ♦     | 27C010-55      | DIP-32  | 128k x 8  | 55ns, 5V .....          | 4.95   | 4.75   | 4.49   |
| 65681    | ♦     | 27C020-20♦     | DIP-32  | 256k x 8  | 200ns, 5V .....         | 3.49   | 2.95   | 2.49   |
| 65699    | ♦     | 27C020-15♦     | DIP-32  | 256k x 8  | 150ns, 5V .....         | 3.75   | 3.49   | 3.25   |
| 78852    | ♦     | 27C020-12♦     | DIP-32  | 256k x 8  | 120ns, 5V .....         | 3.95   | 3.75   | 3.49   |
| 698031   | ST    | M27C2001-12F1  | FDIP-32 | 256k x 8  | 120ns, 5V .....         | 5.95   | 5.49   | 4.95   |
| 156267   | ♦     | 27C020-10      | DIP-32  | 256k x 8  | 100ns, 5V .....         | 4.25   | 3.95   | 3.75   |
| 698023   | ST    | M27C2001-10F1  | FDIP-32 | 256k x 8  | 100ns, 5V .....         | 5.95   | 5.49   | 4.95   |
| 203650   | ♦     | 27C020-80      | DIP-32  | 256k x 8  | 80ns, 5V .....          | 4.49   | 4.25   | 3.75   |
| 127933   | ♦     | 27C4096-12     | DIP-40  | 256k x 16 | 120ns, 5V .....         | 5.95   | 5.49   | 4.95   |
| 698197   | ST    | M27C4002-10F1  | FDIP-40 | 256k x 16 | 100ns, 5V .....         | 7.49   | 6.75   | 6.25   |
| 85462    | ♦     | 27C040-15♦     | DIP-32  | 512k x 8  | 150ns, 5V .....         | 4.49   | 4.25   | 3.95   |
| 698171   | ST    | M27C4001-15F1  | FDIP-28 | 512k x 8  | 150ns, 5V .....         | 6.19   | 5.75   | 5.49   |
| 102293   | ♦     | 27C040-12♦     | DIP-32  | 512k x 8  | 120ns, 5V .....         | 4.95   | 4.75   | 4.49   |
| 698154   | ST    | M27C4001-12F1  | FDIP-28 | 512k x 8  | 120ns, 5V .....         | 6.19   | 5.75   | 5.49   |
| 111780   | ♦     | 27C040-10♦     | DIP-32  | 512k x 8  | 100ns, 5V .....         | 4.95   | 4.75   | 4.49   |
| 698146   | ST    | M27C4001-10F1  | FDIP-28 | 512k x 8  | 100ns, 5V .....         | 7.95   | 6.95   | 6.25   |
| 203676   | ♦     | 27C040-80      | DIP-32  | 512k x 8  | 80ns, 5V .....          | 5.75   | 5.25   | 4.75   |
| 698189   | ST    | M27C4001-80XF1 | FDIP-28 | 512k x 8  | 80ns, 5V (±5%) ..       | 7.95   | 6.95   | 6.25   |
| 266124   | ♦     | 27C040-70      | DIP-32  | 512k x 8  | 70ns, 5V .....          | 5.95   | 5.49   | 4.95   |
| 156275   | ♦     | 27C080-10♦     | DIP-32  | 1M x 8    | 100ns, 5V .....         | 6.95   | 6.49   | 5.95   |
| 698357   | ST    | M27C801-100F1  | FDIP-32 | 1M x 8    | 100ns, 5V (±10%) ..     | 7.95   | 6.75   | 6.19   |
| 203684   | ♦     | 27C080-90      | DIP-32  | 1M x 8    | 90ns, 5V .....          | 7.49   | 6.75   | 6.25   |
| 265842   | ♦     | 27C800-12      | DIP-42  | 1M x 8    | 120ns, 5V .....         | 7.25   | 6.49   | 5.95   |

♦ Refurbished = Backed by Jameco † FDIP = Ceramic frit seal

Ⓢ Blue Part No. = Limited Quantity Available

\* ST = ST Micro ♦ Manufacturer Varies

Ⓡ RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 197.





## OTP/PROMs

★ Web Code: WAG

| Part No. | *Mfr. | Product No.    | Pkg.    | Config.  | Description                        | 1      | 10     | 100    |
|----------|-------|----------------|---------|----------|------------------------------------|--------|--------|--------|
| 48717    | ◆     | 74S288         | DIP-16  | 32 x 8   | 256-bit, 5V, 25ns, PROM ..         | \$9.95 | \$8.95 | \$7.95 |
| 27844    | ◆     | N82S23         | DIP-16  | 32 x 8   | 256-bit, 7V, 50ns, PROM ...        | 5.95   | 4.95   | 3.95   |
| 27764    | ◆     | N82S123        | DIP-16  | 32 x 8   | 256-bit, 7V, 50ns, PROM ...        | 11.95  | 10.95  | 9.95   |
| 48696    | ◆     | 74S287         | DIP-16  | 256 x 4  | 1-kbit, 5V, 30ns, PROM .....       | 10.95  | 9.95   | 7.95   |
| 48805    | ◆     | 74S387         | DIP-16  | 256 x 4  | 1-kbit, 5V, 30ns, PROM .....       | 3.95   | 3.75   | 3.49   |
| 27772    | ◆     | N82S126        | DIP-16  | 256 x 4  | 1-kbit, 5V, 50ns, PROM .....       | 7.95   | 6.95   | 5.95   |
| 27781    | ◆     | N82S129        | DIP-16  | 256 x 4  | 1-kbit, 7V, 50ns, PROM .....       | 10.95  | 9.95   | 8.95   |
| 27799    | ◆     | N82S131        | DIP-16  | 512 x 4  | 2-kbit, 7V, 50ns, PROM .....       | 7.95   | 6.95   | 5.95   |
| 27801    | ◆     | N82S137        | DIP-18  | 1k x 4   | 4-kbit, 7V, 60ns, PROM .....       | 5.95   | 4.95   | 3.95   |
| 27810    | ◆     | N82S181        | DIP-24  | 1k x 8   | 8-kbit, 7V, 70ns, PROM .....       | 8.95   | 7.95   | 6.95   |
| 27828    | ◆     | N82S185        | DIP-18  | 2k x 4   | 8-kbit, 7V, 100ns, PROM .....      | 3.95   | 2.95   | 1.95   |
| 27836    | ◆     | N82S191        | DIP-24  | 2k x 8   | 16-kbit, 7V, 35ns, PROM.....       | 6.95   | 6.49   | 4.95   |
| 394978   | ATM   | AT27C256R-45JL | PLCC-32 | 32k x 8  | 256-kbit, 45ns OTP, LP, I-temp.    | 2.75   | 2.49   | 2.25   |
| 394986   | ATM   | AT27C256R-45PU | DIP-28  | 32k x 8  | 256-kbit, 45ns OTP, LP, I-temp.    | 1.25   | 1.15   | 1.05   |
| 395081   | ATM   | AT27C512R-70PU | DIP-28  | 64k x 8  | 512-kbit, 5V, 70ns, I-temp., OTP   | 1.35   | 1.19   | 1.09   |
| 203692   | ◆     | 27C512-12      | DIP-28  | 64k x 8  | 512-kbit, 5V, 100ns, OTP .....     | 1.35   | 1.19   | 1.09   |
| 394708   | ATM   | AT27C010-70PU  | DIP-32  | 128k x 8 | 1-Mbit, 5V, 70ns, I-temp., OTP ... | 1.95   | 1.75   | 1.49   |
| 267303   | ◆     | 27C080-10      | PLCC-32 | 1M x 8   | 8-Mbit, 5V, 100ns, OTP .....       | 4.95   | 3.95   | 3.49   |
| 267215   | ◆     | 27C080-15      | PLCC-32 | 1M x 8   | 8-Mbit, 5V, 150ns, OTP .....       | 3.95   | 2.49   | 2.25   |

## EEPROMs

Please Note: Manufacturer may vary

★ Web Code: GAM

| * Order in multiples of 10 |                 |          |          |                                   |        |        |        |  |
|----------------------------|-----------------|----------|----------|-----------------------------------|--------|--------|--------|--|
| Part No.                   | Product No.     | Pkg.     | Config.  | Description                       | 1      | 10     | 100    |  |
| 102058                     | 93C46           | DIP-8    | 64 x 16  | 3-wire serial, 2-5V .....         | \$ .25 | \$ .22 | \$ .19 |  |
| 276955                     | 93C46           | SOIC-8   | 64 x 16  | 3-wire serial, 2-5V .....         | * .15  | .12    | .12    |  |
| 108855                     | 93C56           | DIP-8    | 128 x 16 | 3-wire serial, 2-5V .....         | .25    | .22    | .19    |  |
| 108839                     | 24C02P          | DIP-8    | 256 x 8  | 2-wire serial, 5V .....           | .29    | .25    | .22    |  |
| 200598                     | 93C66           | DIP-8    | 256 x 16 | 3-wire serial, 2-5V .....         | .35    | .29    | .25    |  |
| 108847                     | 24C04P          | DIP-8    | 512 x 8  | 2-wire serial, 2-5V .....         | .45    | .39    | .35    |  |
| 200547                     | 24C08-10        | DIP-8    | 1k x 8   | 2-wire serial, 2-5V .....         | .45    | .39    | .35    |  |
| 200555                     | 24C16-10        | DIP-8    | 2k x 8   | 2-wire serial, 5V .....           | .45    | .39    | .35    |  |
| 276699                     | 28C16           | SOIC-24  | 2k x 8   | Page parallel, 5V .....           | 2.49   | 2.25   | 1.95   |  |
| 74691                      | 28C16A-25       | DIP-24   | 2k x 8   | Page parallel, 5V .....           | 3.95   | 3.75   | 3.49   |  |
| 276701                     | 28C17           | DIP-28   | 2k x 8   | Page parallel, 5V .....           | 3.95   | 3.75   | 3.49   |  |
| 40416                      | 2817A-25        | DIP-28   | 2k x 8   | Page parallel, 5V .....           | 4.95   | 4.49   | 4.25   |  |
| 276752                     | 28C64           | SOIC-28  | 8k x 8   | Page parallel, 5V .....           | 1.95   | 1.25   | .95    |  |
| 74827                      | 28C64A-25       | DIP-28   | 8k x 8   | Page parallel, 5V .....           | 3.75   | 3.49   | 3.25   |  |
| 40475                      | 2865A           | DIP-28   | 8k x 8   | 5V with latches .....             | 5.95   | 5.49   | 4.95   |  |
| 276816                     | 28C256-15SC     | SOIC-28  | 32k x 8  | Page parallel, 5V .....           | 5.49   | 4.49   | 3.95   |  |
| 200580                     | 24C256-10       | DIP-8    | 32k x 8  | 2-wire serial, 2-5V .....         | 1.49   | 1.35   | 1.19   |  |
| 74878                      | 28C256-25       | DIP-28   | 32k x 8  | Page parallel, 5V .....           | 5.95   | 5.49   | 4.95   |  |
| 74843                      | 28C256-15       | DIP-28   | 32k x 8  | Page parallel, 5V .....           | 5.49   | 5.25   | 4.49   |  |
| 1474101                    | M9526-WMN6TP    | SO-8     | 32k x 8  | 2.5-5.5V, 256-kbit serial spi bus | 1.49   | 1.25   | 1.05   |  |
| 276832                     | 24C512          | DIP-8    | 64k x 8  | 2-wire serial, 2-5V .....         | 1.95   | 1.75   | 1.49   |  |
| 1010868                    | AT24C512BN-SH-B | SOIC-8   | 64k x 8  | 2-wire serial, 1.8-3.6V ....      | 1.75   | 1.45   | 1.15   |  |
| 276912                     | 24C1024         | DIP-8    | 128k x 8 | 2-wire serial, 2.7-5V .....       | 5.95   | 5.49   | 5.25   |  |
| 395372                     | AT28LV010-20TC  | TSSOP-32 | 128k x 8 | Page parallel, 3.3V .....         | 29.95  | 26.95  | 23.95  |  |

◆ Blue Part No. = Limited Quantity Available

## IC Accessories

| * Order in multiples of 10 |             |   |         |         |  |  |  |  |
|----------------------------|-------------|---|---------|---------|--|--|--|--|
| Part No.                   | Product No. | Description   | 1       | 10      |  |  |  |  |
| 13864                      | CF2         | Conductive foam (12" x 24" x .25") hard black .....             | \$11.95 | \$10.95 |  |  |  |  |
| 29516                      | RIC20       | .300" anti-static rail for 8, 14, 16, 18, 20 & 22-pin ICs ..... | .25     | .22     |  |  |  |  |
| 29524                      | RIC220      | .600" anti-static rail for 24, 28, 36 & 40-pin ICs .....        | .29     | .25     |  |  |  |  |
| 29583                      | RRS         | Storage tube rubber stopper .....                               | *       | .07     |  |  |  |  |

Additional Anti-Static Products, IC Accessories and Tools see page 164

★ I<sup>2</sup>C SMBus Available Online — Enter Web Code SAS

## Static RAM

★ Web Code: WAF

| Part No. | *Mfr. | Product No.         | Pkg.     | Config.  | Description                         | 1      | 10     |
|----------|-------|---------------------|----------|----------|-------------------------------------|--------|--------|
| 38931    | ◆     | 2111-1              | DIP-18   | 256 x 4  | 1-Kbit, 5V, 500ns .....             | \$1.95 | \$1.75 |
| 42198    | ◆     | 5101★               | DIP-22   | 256 x 4  | 1-Kbit, 5V, 450ns .....             | 7.95   | 6.95   |
| 38957    | ◆     | 2114N               | DIP-18   | 1k x 4   | 4-Kbit, 5V, 450ns .....             | 1.95   | 1.75   |
| 43238    | ◆     | 6514                | DIP-18   | 1k x 4   | 4-Kbit, 5V, 300ns .....             | 2.95   | 2.75   |
| 38973    | ◆     | 2114N-2             | DIP-18   | 1k x 4   | 4-Kbit, 5V, 200ns .....             | 2.19   | 1.95   |
| 38981    | ◆     | 2114N-2L            | DIP-18   | 1k x 4   | 4-Kbit, 5V, 450ns, LP .....         | 2.35   | 2.19   |
| 38738    | ◆     | 2016-12             | DIP-24   | 2k x 8   | 16-Kbit, 5V, 120ns .....            | 1.25   | 1.15   |
| 38746    | ◆     | 2016-20★            | DIP-24   | 2k x 8   | 16-Kbit, 5V, 200ns .....            | 1.15   | 1.05   |
| 114260   | DAL   | DS1220Y-150         | DIP-24   | 2k x 8   | 16-Kbit, 5V, 150ns, NV .....        | 10.95  | 9.95   |
| 25911    | ◆     | MK48Z02B-15         | DIP-24   | 2k x 8   | 16-Kbit, 5V, 150ns .....            | 7.95   | 6.95   |
| 42809    | ◆     | 6116P-3★            | DIP-24   | 2k x 8   | 16-Kbit, 5V, 150ns .....            | 1.75   | 1.55   |
| 42753    | ◆     | 6116LP-3★           | DIP-24   | 2k x 8   | 16-Kbit, 5V, 150ns, LP .....        | 1.85   | 1.65   |
| 42788    | ◆     | 6116P-1★            | DIP-24   | 2k x 8   | 16-Kbit, 5V, 100ns .....            | 1.85   | 1.65   |
| 242676   | ◆     | L6116PC10           | DIP-24   | 2k x 8   | 16-Kbit, 5V, 100ns .....            | 1.49   | 1.19   |
| 42796    | ◆     | 6116P-2★            | DIP-24   | 2k x 8   | 16-Kbit, 5V, 120ns .....            | 1.49   | 1.25   |
| 42737    | ◆     | 6116LP-1★           | DIP-24   | 2k x 8   | 16-Kbit, 5V, 100ns, LP .....        | 1.95   | 1.75   |
| 242683   | CPS   | CY7C128A-45         | DIP-24   | 2k x 8   | 16-Kbit, 5V, 45ns, Asynch. ....     | 2.95   | 2.75   |
| 242675   | ◆     | 6116-70             | DIP-24   | 2k x 8   | 16-Kbit, 5V, 70ns .....             | 2.25   | 1.95   |
| 392446   | ◆     | CY7C4235V-15ASC     | STQFP-64 | 2k x 16  | 36-Kbit, 3.3V, 15ns, Synch. FIFO    | 14.95  | 12.95  |
| 242333   | ◆     | CY7C185-35          | DIP-28   | 8k x 8   | 64-Kbit, 5V, 35ns, Asynch. ....     | 2.49   | 2.25   |
| 1927473  | ALM   | AS6C6264-55PCN      | PDIP-28  | 8k x 8   | 64k LP, 55ns, 2.7-5.5V, C-temp      | 3.25   | 2.95   |
| 392294   | CPS   | CY6264-70SNC        | SOIC-28  | 8k x 8   | 64-Kbit, 5V, 70ns, NV .....         | 1.05   | .95    |
| 85121    | ◆     | 6264LP-70           | DIP-28   | 8k x 8   | 64-Kbit, 5V, 70ns, LP .....         | 3.75   | 3.49   |
| 42884    | ◆     | 6264LP-10★          | DIP-28   | 8k x 8   | 64-Kbit, 5V, 100ns, LP .....        | 2.95   | 2.75   |
| 42921    | ◆     | 6264P-10★           | DIP-28   | 8k x 8   | 64-Kbit, 5V, 100ns .....            | 2.75   | 2.49   |
| 42892    | ◆     | 6264LP-12★          | DIP-28   | 8k x 8   | 64-Kbit, 5V, 120ns, LP .....        | 2.75   | 2.49   |
| 42930    | ◆     | 6264P-12★           | DIP-28   | 8k x 8   | 64-Kbit, 5V, 120ns .....            | 2.49   | 2.25   |
| 114278   | DAL   | DS1225AB-15         | DIP-28   | 8k x 8   | 64-Kbit, 5V, 150ns, NV .....        | 14.95  | 12.95  |
| 114307   | DAL   | DS1225Y-200         | DIP-28   | 8k x 8   | 64-Kbit, 5V, 200ns, NV .....        | 11.95  | 10.95  |
| 242376   | ◆     | CY7C199P-35         | DIP-28   | 32k x 8  | 256-Kbit, 5V, 35ns, LP Asynch. .... | 1.95   | 1.75   |
| 242499   | DAL   | DS1230Y-70          | DIP-28   | 32k x 8  | 256-Kbit, 4.5V, 70ns, WP .....      | 17.95  | 15.95  |
| 177113   | DAL   | DS1230Y-100         | DIP-28   | 32k x 8  | 256-Kbit, 5V, 100ns, NV .....       | 12.95  | 11.95  |
| 114323   | DAL   | DS1230Y-150         | DIP-28   | 32k x 8  | 256-Kbit, 5V, 150ns, NV .....       | 11.95  | 10.95  |
| 41970    | ◆     | 43256-10L★          | DIP-28   | 32k x 8  | 256-Kbit, 5V, 100ns, LP .....       | 3.95   | 3.75   |
| 41988    | ◆     | 43256-12L★          | DIP-28   | 32k x 8  | 256-Kbit, 5V, 120ns, LP .....       | 3.75   | 3.49   |
| 75037    | ◆     | UM61M256K-15        | DIP-28   | 32k x 8  | 256-Kbit, 5V, 15ns .....            | 3.95   | 3.49   |
| 82472    | ◆     | 62256LP-70          | DIP-28   | 32k x 8  | 256-Kbit, 5V, 70ns, LP .....        | 2.75   | 2.49   |
| 391793   | CPS   | CY62256L-70PC       | DIP-28   | 32k x 8  | 256-Kbit, 5V, 70ns .....            | 2.95   | 2.75   |
| 391822   | CPS   | CY62256L-70PC       | DIP-28   | 32k x 8  | 256-Kbit, 5V, 70ns, LP .....        | 2.95   | 2.75   |
| 391890   | CPS   | CY62256LL-70SNC     | SOIC-28  | 32k x 8  | 256-Kbit, 5V, 70ns, LP .....        | 1.75   | 1.55   |
| 42876    | ◆     | 62256LP-85          | DIP-28   | 32k x 8  | 256-Kbit, 5V, 85ns, LP .....        | 2.65   | 2.45   |
| 42833    | ◆     | 62256LP-10★         | DIP-28   | 32k x 8  | 256-Kbit, 5V, 100ns, LP .....       | 2.49   | 2.15   |
| 42850    | ◆     | 62256LP-12★         | DIP-28   | 32k x 8  | 256-Kbit, 5V, 120ns, LP .....       | 2.25   | 2.05   |
| 279831   | CPS   | CY7C199-25VC        | SOJ-28   | 32k x 8  | 256-Kbit, 5V, 25ns .....            | 1.75   | 1.49   |
| 279857   | ◆     | 62256S-15           | SOJ-28   | 32k x 8  | 256-Kbit, 5V, 150ns .....           | 1.25   | .95    |
| 1927799  | ALM   | AS7C1026B-12JCN     | SOJ-44   | 64k x 16 | 1M, 12ns, 5V, C-temp .....          | 3.49   | 3.25   |
| 1927457  | ALM   | AS6C1008-55PCN      | PDIP-32  | 128k x 8 | 1M LP, 55ns, 2.7-5.5V, C-temp       | 3.95   | 3.75   |
| 391831   | CPS   | CY62128BLL-70SC     | SOIC-32  | 128k x 8 | 1-Mbit, 5V, 70ns, LP .....          | 2.49   | 2.25   |
| 391996   | CPS   | CY62128BLL-70ZC     | TSSOP-32 | 128k x 8 | 1-Mbit, 5V, 70ns, LP .....          | 2.95   | 2.75   |
| 131810   | ◆     | 628128LP-70         | DIP-32   | 128k x 8 | 1-Mbit, 5V, 70ns, LP .....          | 6.95   | 5.95   |
| 103982   | ◆     | 628128LP-85★        | DIP-32   | 128k x 8 | 1-Mbit, 5V, 85ns, LP .....          | 4.95   | 4.49   |
| 1927617  | ALM   | AS6C4008-55PCN      | PDIP-32  | 512k x 8 | 4M LP, 55ns, 2.7-5.5V, C-temp       | 5.95   | 5.49   |
| 242448   | ◆     | BS62LV4006PIP-55    | PDIP-32  | 512k x 8 | 4M LP, 55ns, 2.4-5.5V, I-temp       | 18.95  | 16.95  |
| 175358   | ◆     | 628512LP-70         | DIP-32   | 512k x 8 | 4-Mbit, 5V, 70ns, LP .....          | 17.95  | 15.95  |
| 280049   | ◆     | 628512S-70          | SOP-32   | 512k x 8 | 4-Mbit, 5V, 20ns, Asynch. ....      | 4.95   | 4.49   |
| 1862446  | ◆     | IS61WV2048BLL-10MLL | BGA-48   | 2M x 8   | 16M, 2.4-3.6V, 10ns .....           | 29.25  | 24.95  |

★ Pull = Extra Savings

\* ALM = Alliance Memory | ATM = Atmel Semiconductor | CPS = Cypress Semiconductor | DAL = Dallas Semiconductor | ◆ Manufacturer Varies

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed AboveOrder by Phone 24/7 at 1-800-831-4242 or Online at [www.Jameco.com](http://www.Jameco.com)

## DRAM

Please Note: Manufacturer may vary

| Part No. | Product No.  | Pkg.   | Config.   | Description                | 1      | 10     | 100    |
|----------|--------------|--------|-----------|----------------------------|--------|--------|--------|
| 41339    | 4116-15      | DIP-16 | 16k x 1   | 150ns (MM5290J-1R) .....   | \$ .99 | \$ .89 | \$ .79 |
| 41662    | 4164-150★    | DIP-16 | 64k x 1   | 150ns (MCM6665-15) .....   | .99    | .89    | .79    |
| 41574    | 41464-10★    | DIP-18 | 64k x 4   | 100ns (HY53C464S-10) ..... | 1.69   | 1.59   | 1.45   |
| 41398    | 41256-120★   | DIP-16 | 256k x 1  | 120ns (MB81256-12) .....   | .79    | .69    | .59    |
| 42315    | 514256P-80★  | DIP-20 | 256k x 4  | 80ns (UPD424256-80) .....  | 1.49   | 1.35   | 1.19   |
| 93374    | 514256P-70★  | DIP-20 | 256k x 4  | 70ns (TC514256P-70) .....  | 1.55   | 1.39   | 1.25   |
| 128688   | HM514260AJ7★ | SOJ-40 | 256k x 16 | 70ns .....                 | 2.95   | 2.75   | 2.49   |
| 42219    | 511000P-10   | DIP-18 | 1M x 1    | 100ns (M5M4C1000-10) ..... | 1.95   | 1.49   | 1.25   |

★ Pull = Extra Savings

★SDRAMs Available Online — Enter Web Code RAY

## Legacy Intel® Desktop Processors

| Part No. | Description                    | Speed (MHz) | Package       | 1       | 10      |
|----------|--------------------------------|-------------|---------------|---------|---------|
| 183100   | Intel Pentium® II processor    | 400         | Slot 1 .....  | \$39.95 | \$29.95 |
| 190060   | Intel Pentium® II w/ heat sink | 233         | Slot 1 .....  | 25.95   | 22.95   |
| 140054   | Intel Pentium MMX® processor★  | 200         | 376/PGA ..... | 14.95   | 12.95   |
| 130841   | Intel Pentium® processor       | 166         | 296/PGA ..... | 9.95    | 8.95    |

★ Pull = Extra Savings

## Memory Modules

Please Note: Manufacturer may vary

★Web Code: GAG

| Part No. | Product No.  | Capacity | Description   | Config. | Pins     | 1       | 10      |
|----------|--------------|----------|---------------|---------|----------|---------|---------|
| 148460   | 8MBX36-60    | 32MB     | 60ns SIMM     | 8M x 36 | 72 ..... | \$19.95 | \$17.95 |
| 75096    | P362000-XX-6 | 8MB      | 60ns SIMM     | 2M x 36 | 72 ..... | 8.95    | 7.95    |
| 130729   | JEEDO7208    | 8MB      | 60ns SIMM EDO | 2M x 32 | 72 ..... | 1.25    | .95     |
| 75133    | P361000-XX-6 | 4MB      | 60ns SIMM     | 1M x 36 | 72 ..... | 6.95    | 5.95    |

## Flash Memory

Please Note: Manufacturer may vary

★Web Code: KAJ

| Part No. | Product No.     | Pkg.     | Config.  | Description                 | 1      | 10     | 100    |
|----------|-----------------|----------|----------|-----------------------------|--------|--------|--------|
| 74771    | 28F010-15       | DIP-32   | 128k x 8 | 150ns, 5V .....             | \$4.95 | \$4.35 | \$3.95 |
| 242587   | 29F010-120      | DIP-32   | 128k x 8 | 120ns, 5V .....             | 2.95   | 2.75   | 2.49   |
| 242595   | 29F010-90       | DIP-32   | 128k x 8 | 90ns, 5V .....              | 2.95   | 2.75   | 2.49   |
| 242608   | 29F010-70       | DIP-32   | 128k x 8 | 70ns, 5V .....              | 3.25   | 2.95   | 2.75   |
| 74835    | 28F020-15       | DIP-32   | 256k x 8 | 150ns, 5V .....             | 6.95   | 6.25   | 5.49   |
| 242616   | 29F020-12       | DIP-32   | 256k x 8 | 120ns, 5V .....             | 7.95   | 6.95   | 5.95   |
| 242659   | 29F040-120      | DIP-32   | 512k x 8 | 120ns, 5V .....             | 3.95   | 3.75   | 3.49   |
| 242667   | 29F040-90       | DIP-32   | 512k x 8 | 90ns, 5V .....              | 4.25   | 3.95   | 3.75   |
| 321672   | M25P80-VMN6     | SOIC-8   | 1M x 8   | 3V w/ 40MHz SPI bus interf. | 2.49   | 2.25   | 1.75   |
| 1912896  | S29GL128N10T010 | TSSOP-56 | 16M x 8  | 100ns, 3.6V .....           | 9.95   | 7.95   | 6.95   |

★Boot Block Flash Available Online — Enter Web Code MEH

★Page Mode Flash Available Online — Enter Web Code BCR

## Flash MCUs

| Part No. | Mfr. Part No.  | Pkg.    | Description                          | 1      | 10     |
|----------|----------------|---------|--------------------------------------|--------|--------|
| 280268   | Z8F1601PM020SC | DIP-40  | 16kB ROM, 2kB RAM, 31 I/O, A/D ..... | \$8.95 | \$7.95 |
| 280292   | Z8F2401PM020SC | DIP-40  | 24kB ROM, 2kB RAM, 31 I/O, A/D ..... | 9.95   | 8.95   |
| 280305   | Z8F2401VN020SC | PLCC-44 | 24kB ROM, 2kB RAM, 31 I/O, A/D ..... | 9.95   | 8.95   |
| 280330   | Z8F3201VN020SC | PLCC-44 | 32kB ROM, 2kB RAM, 31 I/O, A/D ..... | 8.95   | 7.95   |
| 280348   | Z8F3202VS020SC | PLCC-68 | 32kB ROM, 2kB RAM, 46 I/O, A/D ..... | 8.95   | 7.95   |
| 280356   | Z8F4801PM020SC | DIP-40  | 48kB ROM, 4kB RAM, 31 I/O, A/D ..... | 9.95   | 8.95   |
| 280364   | Z8F4801VN020SC | PLCC-44 | 48kB ROM, 4kB RAM, 31 I/O, A/D ..... | 9.95   | 8.95   |
| 280372   | Z8F4802VS020SC | PLCC-68 | 48kB ROM, 4kB RAM, 46 I/O, A/D ..... | 9.95   | 8.95   |

## MAXIM Supervisory

★Web Code: SCT

| Part No. | Mfr. Part No. | Pkg.   | Description                           | 1      | 10     |
|----------|---------------|--------|---------------------------------------|--------|--------|
| 884897   | MAX691ACPE    | DIP-16 | µP supervisory circuit (C-temp) ..... | \$4.95 | \$4.15 |

★CPLDs and FPGAs Available Online — Enter Web Code SAZ

\* ANA = Anachip | LAT = Lattice Semiconductor | ♦ Manufacturer Varies

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 197.



## Dallas Semiconductors

★Web Code: QDH

| Part No. | Mfr. Part No. | Pkg.   | Description   | 1      | 10     | 100    |
|----------|---------------|--------|---|--------|--------|--------|
| 866584   | DS275         | DIP-8  | Line powered RS-232 transceiver chip .....          | \$4.75 | \$4.49 | \$3.95 |
| 114198   | DS1210        | DIP-8  | NV controller chip .....                            | 3.75   | 2.95   | 2.25   |
| 114219   | DS1213C       | DIP-28 | Smart socket .....                                  | 15.95  | 14.95  | 13.95  |
| 133410   | DS1216C       | DIP-28 | Smart watch/RAM .....                               | 25.95  | 22.95  | 17.95  |
| 780182   | DS1231-20     | DIP-8  | Power monitor chip .....                            | 5.95   | 4.49   | 3.95   |
| 114331   | DS1232LP      | DIP-8  | Micromonitor chip .....                             | 1.69   | 1.35   | 1.09   |
| 697231   | DS1243Y-120+  | DIP-28 | 64k NV SRAM w/ phantom clock .....                  | 23.95  | 21.95  | 19.95  |
| 133444   | DS1286        | DIP-28 | Watchdog timekeeper .....                           | 19.95  | 17.95  | 15.95  |
| 76646    | DS1287★       | DIP-24 | Real time clock chip .....                          | 7.95   | 7.25   | 6.49   |
| 176778   | DS1302        | DIP-8  | Trickle charge time keeping .....                   | 2.59   | 2.05   | 1.49   |
| 780481   | DS1302+       | DIP-8  | Trickle charge time keeping chip, C-temp .....      | 2.95   | 2.29   | 1.65   |
| 1194679  | DS1307        | DIP-8  | 5V, 64 x 8 serial I2C real time clock, C-temp ..... | 2.95   | 2.49   | 1.85   |
| 114374   | DS1387★       | DIP-24 | RAMified real time clock .....                      | 5.95   | 5.25   | 4.75   |
| 114382   | DS1620        | DIP-8  | Digital thermometer and thermostat ..               | 5.25   | 4.49   | 2.95   |
| 865936   | DS18B20       | TO-92  | Prog. resolution 1-wire digital thermometer ..      | 4.25   | 3.75   | 3.49   |
| 133452   | DS12887★      | DIP-24 | Real time clock chip .....                          | 5.95   | 4.95   | 3.75   |

★ Pull = Extra Savings

## PALs, GALs & PEELs

★Web Code: YAD

| Part No. | *Mfr. | Product No.     | Pkg.    | Description                                   | 1      | 10     |
|----------|-------|-----------------|---------|---|--------|--------|
| 28020    | ♦     | PAL16L8         | DIP-20  | Octal 16-input AND-OR-INVERT gate array ..... | \$1.95 | \$1.75 |
| 111667   | ♦     | PAL16R6ANC      | DIP-20  | TTL, 32 x 64 AND array .....                  | 1.49   | 1.25   |
| 652615   | ♦     | GAL16V8-7       | DIP-20  | 7ns 64 x 32 AND array .....                   | 1.95   | 1.75   |
| 88399    | ♦     | GAL16V8-10*     | DIP-20  | 10ns 64 x 32 AND array .....                  | 1.85   | 1.65   |
| 37452    | ♦     | GAL16V8-15*     | DIP-20  | 15ns 64 x 32 AND array .....                  | 1.09   | .99    |
| 37461    | ♦     | GAL16V8-25*     | DIP-20  | 25ns 64 x 32 AND array .....                  | .99    | .89    |
| 876539   | LAT   | GAL16V8D-25LP   | DIP-20  | 25ns 64 x 32 AND array .....                  | 1.25   | 1.15   |
| 312995   | ♦     | 16CV8P-25       | DIP-20  | 25ns 64 x 32 AND array, PEEL .....            | .89    | .69    |
| 105953   | ANA   | 18CV8P-25       | DIP-20  | 25ns 74 x 36 AND array, PEEL .....            | 2.75   | 2.45   |
| 88292    | ♦     | GAL20V8-10**    | DIP-24  | 10ns 64 x 40 AND array .....                  | 1.75   | 1.49   |
| 38658    | ♦     | GAL20V8-15**    | DIP-24  | 15ns 64 x 40 AND array .....                  | 1.59   | 1.45   |
| 38666    | ♦     | GAL20V8-25      | DIP-24  | 25ns 64 x 40 AND array .....                  | 1.49   | 1.15   |
| 105996   | ANA   | 22CV10AP-25     | DIP-24  | 25ns 132 x 44 AND array, PEEL .....           | 2.95   | 2.75   |
| 876951   | LAT   | GAL22V10D-15LP  | DIP-24  | 15ns 132 x 44 AND array .....                 | 4.49   | 3.49   |
| 39159    | ♦     | GAL22V10-15     | DIP-24  | 15ns 132 x 44 AND array .....                 | 3.75   | 3.49   |
| 39167    | ♦     | GAL22V10-25     | DIP-24  | 25ns 132 x 44 AND array .....                 | 2.45   | 2.25   |
| 1247902  | LAT   | GAL22V10D-25LJI | PLCC-28 | 25ns 132 x 44 AND array .....                 | 2.49   | 2.25   |

GALs are electrically erasable, CMOS PLDs that can be reprogrammed and can be used in place of numerous PALs

\* Replaces PALs: 10H8, 10L8, 10P8, 12H6, 12L6, 12P6, 14H4, 14L4, 14P4, 16H2, 16H8, 16L2, 16L8, 16P2, 16P8, 16R4, 16R6, 16R8, 16RP4, 16RP6, 16RP8, 14H8, 14L8, 14P8, 16H6, 16L6, 16P6

\*\* Replaces PALs: 18H4, 18L4, 18P4, 20H2, 20H8, 20L2, 20L8, 20P2, 20P8, 20R4, 20R6, 20R8, 20RP4, 20RP6, 20RP8

## MPU Supervisory

Please Note: Manufacturer may vary

★Web Code: PAN

| Part No. | Product No. | Pkg.  | Description                         | 1      | 10     | 100    |
|----------|-------------|-------|-------------------------------------|--------|--------|--------|
| 106219   | MAX690CPA   | DIP-8 | Watchdog timer, 4.4V .....          | \$3.95 | \$3.59 | \$3.25 |
| 1802620  | ADM705ANZ   | DIP-8 | Low cost microprocessor .....       | 1.25   | .95    | .65    |
| 106260   | MAX1232CPA  | DIP-8 | Watchdog timer, 4.65V - 4.75V ..... | 1.95   | 1.49   | .85    |

## Voice Chip

★Web Code: XAU

### Single-Chip Voice Record/Playback Device

- Manual switch or microprocessor controllable
- Directly cascadable for longer durations
- Single voltage operation: +5V (4.5V to 5.5V operating range)
- Playback can be edge or level-activated
- Typical 100k record cycles, 1µA standby current and 100 year message retention



| Part No. | Mfr. Part No. | Description                           | 1      | 10     | 50     |
|----------|---------------|---------------------------------------|--------|--------|--------|
| 141671   | ISD1110P      | Voice record/playback (10 sec.) ..... | \$6.95 | \$6.25 | \$5.49 |





## Microcontrollers

★ Web Code: PAV

| Part No. | *Mfr. | Mfr. Part No.    | Pkg.    | Description                      | 1     | 10    |
|----------|-------|------------------|---------|----------------------------------|-------|-------|
| 145040   | MCH   | PIC12C508A-04/P  | DIP-8   | 512 OTP, 4MHz, 5 I/O, C-temp     | \$.95 | \$.85 |
| 144258   | MCH   | PIC12C509A-04/P  | DIP-8   | 1k OTP, 4MHz, 5 I/O, C-temp      | .95   | .85   |
| 145058   | MCH   | PIC12C509A/JW    | DIP-8   | 1k EPROM, 41-bit, 4MHz, 5 I/O    | 10.95 | 9.49  |
| 193455   | MCH   | PIC12C671-04/P   | DIP-8   | 1k OTP, 128-bit, 4MHz, 6 I/O     | 1.75  | 1.49  |
| 193463   | MCH   | PIC12C672-04/P   | DIP-8   | 2k OTP, 128-bit, 4MHz, 6 I/O     | 1.75  | 1.49  |
| 248145   | MCH   | PIC12CE674-10/P  | DIP-8   | 2k OTP, 128-bit, 10MHz, 5 I/O    | 2.49  | 1.95  |
| 223790   | MCH   | PIC12F629-I/P    | DIP-8   | 1k flash, 20MHz, 6 I/O, I-temp   | .89   | .85   |
| 223781   | MCH   | PIC12F675-I/P    | DIP-8   | 1k flash, 20MHz, 6 I/O, I-temp   | 1.09  | .99   |
| 312514   | MCH   | PIC12F683-I/P    | DIP-8   | 2k flash, 20MHz, 6 I/O, I-temp   | 1.29  | 1.25  |
| 128338   | MCH   | PIC16C54A-04/P   | DIP-18  | 512 OTP, 4MHz, 12 I/O, C-temp    | 1.39  | 1.29  |
| 247214   | MCH   | PIC16C54C-20I/P  | DIP-18  | 512 OTP, 25-bit, 20MHz, 12 I/O   | 1.45  | 1.25  |
| 200416   | MCH   | PIC16C55A-04/P   | DIP-28  | 512 OTP, 24-bit, 4MHz, 20 I/O    | 1.95  | 1.59  |
| 247265   | MCH   | PIC16C56A-20I/P  | DIP-18  | 1k OTP, 25-bit, 20MHz, 12 I/O    | 1.95  | 1.49  |
| 193341   | MCH   | PIC16C57C-04/P   | DIP-28  | 2k OTP, 4MHz, 20 I/O, C-temp     | 2.09  | 1.95  |
| 200424   | MCH   | PIC16C66-04/SP   | DIP-18  | 8k OTP, 368-bit, 4MHz, 22 I/O    | 4.95  | 4.49  |
| 247484   | MCH   | PIC16C67-20/P    | DIP-40  | 8k OTP, 368-bit, 20MHz, 33 I/O   | 5.49  | 5.25  |
| 200432   | MCH   | PIC16C72A-04/SP  | DIP-28  | 2k OTP, 128-bit, 4MHz, 22 I/O    | 3.49  | 2.95  |
| 247695   | MCH   | PIC16C72A-20I/P  | DIP-28  | 2k OTP, 128-bit, 20MHz, 22 I/O   | 3.95  | 3.55  |
| 193359   | MCH   | PIC16C711-04/P   | DIP-18  | 1k OTP, 4MHz, 13 I/O, C-temp     | 2.25  | 2.15  |
| 247599   | MCH   | PIC16C711-20I/P  | DIP-18  | 1k OTP, 68-bit, 20MHz, 13 I/O    | 2.75  | 2.49  |
| 247601   | MCH   | PIC16C711-20/SO  | SOIC-18 | 1k OTP, 68-bit, 20MHz, 13 I/O    | 2.75  | 2.49  |
| 247759   | MCH   | PIC16C773-I/SP   | DIP-28  | 4k OTP, 256-bit, 20MHz, 22 I/O   | 4.95  | 4.49  |
| 145111   | MCH   | PIC16F84A-04/P   | DIP-18  | 1k flash, 4MHz, 13 I/O, C-temp   | 3.55  | 3.35  |
| 145120   | MCH   | PIC16F84A-10/P   | DIP-18  | 1k flash, 10MHz, 13 I/O, C-temp  | 6.95  | 6.75  |
| 193332   | MCH   | PIC16F84A-20/P   | DIP-18  | 1k flash, 20MHz, 13 I/O, C-temp  | 3.75  | 3.55  |
| 246861   | MCH   | PIC16F84A-20I/P  | DIP-18  | 1k flash, 20MHz, 13 I/O, I-temp  | 3.95  | 3.75  |
| 246887   | MCH   | PIC16F84A-20/SS  | SSOP-20 | 68-bit, 1k flash, 20MHz, 12 I/O  | 5.25  | 4.75  |
| 247097   | MCH   | PIC16F87-I/P     | DIP-18  | 4k flash, 20MHz, 16 I/O, I-temp  | 3.49  | 3.25  |
| 312733   | MCH   | PIC16F88-I/P     | DIP-18  | 4k flash, 20MHz, 16 I/O, I-temp  | 3.25  | 2.95  |
| 193439   | MCH   | PIC16F627-20/P   | DIP-18  | 1k flash, 20MHz, 16 I/O, C-temp  | 2.95  | 2.75  |
| 193447   | MCH   | PIC16F628-20/P   | DIP-18  | 2k flash, 20MHz, 16 I/O, C-temp  | 3.25  | 2.95  |
| 246756   | MCH   | PIC16F628-20I/P  | DIP-18  | 2k flash, 20MHz, 16 I/O, I-temp  | 3.49  | 3.25  |
| 223749   | MCH   | PIC16F630-I/P    | DIP-14  | 1k flash, 20MHz, 12 I/O, I-temp  | 1.29  | 1.19  |
| 247151   | MCH   | PIC16F648A-I/SO  | SOIC-18 | 256-bit, 4k flash, 20MHz, 16 I/O | 1.95  | 1.75  |
| 247142   | MCH   | PIC16F648A-I/P   | DIP-18  | 4k flash, 20MHz, 16 I/O, I-temp  | 2.25  | 1.95  |
| 223757   | MCH   | PIC16F676-I/P    | DIP-14  | 1k flash, 20MHz, 12 I/O, I-temp  | 1.29  | 1.25  |
| 312590   | MCH   | PIC16F684-I/P    | DIP-14  | 2k flash, 20MHz, 12 I/O, I-temp  | 1.59  | 1.49  |
| 312611   | MCH   | PIC16F688-I/P    | DIP-14  | 4k flash, 20MHz, 12 I/O, I-temp  | 1.95  | 1.75  |
| 312725   | MCH   | PIC16F777-I/P    | DIP-40  | 368-bit, 8k flash, 20MHz, 36 I/O | 3.95  | 3.49  |
| 223765   | MCH   | PIC16F818-I/P    | DIP-18  | 1k flash, 20MHz, 16 I/O, I-temp  | 2.09  | 1.95  |
| 247071   | MCH   | PIC16F819-I/SS   | SSOP-20 | 256-bit, 2k flash, 20MHz, 16 I/O | 2.15  | 1.95  |
| 223773   | MCH   | PIC16F819-I/P    | DIP-18  | 2k flash, 20MHz, 16 I/O, I-temp  | 2.59  | 2.25  |
| 246895   | MCH   | PIC16F870-I/SP   | DIP-28  | 2k flash, 20MHz, 22 I/O, I-temp  | 2.95  | 2.75  |
| 246924   | MCH   | PIC16F871-I/P    | DIP-40  | 128-bit, 2k flash, 20MHz, 33 I/O | 3.15  | 2.95  |
| 246941   | MCH   | PIC16F872-I/SP   | DIP-28  | 2k flash, 20MHz, 22 I/O, I-temp  | 2.95  | 2.75  |
| 246975   | MCH   | PIC16F873A-I/SP  | DIP-28  | 4k flash, 20MHz, 22 I/O, I-temp  | 3.95  | 3.75  |
| 193367   | MCH   | PIC16F876-20/SP  | DIP-28  | 8k flash, 20MHz, 22 I/O, C-temp  | 5.95  | 5.75  |
| 247011   | MCH   | PIC16F876A-I/SP  | DIP-28  | 8k flash, 20MHz, 22 I/O, I-temp  | 4.25  | 3.95  |
| 247046   | MCH   | PIC16F877A-I/L   | PLCC-44 | 8k flash, 20MHz, 33 I/O, I-temp  | 5.65  | 5.45  |
| 176882   | MCH   | PIC16F877-20/P   | DIP-40  | 8k flash, 20MHz, 22 I/O, C-temp  | 5.65  | 5.45  |
| 247038   | MCH   | PIC16F877A-I/P   | DIP-40  | 8k flash, 20MHz, 33 I/O, I-temp  | 4.75  | 4.55  |
| 247880   | MCH   | PIC17C42A-16/L   | PLCC-44 | 2k OTP, 232-bit, 16MHz, 33 I/O   | 7.95  | 6.95  |
| 247901   | MCH   | PIC17C43-25/L    | PLCC-44 | 4k OTP, 454-bit, 25MHz, 33 I/O   | 10.95 | 9.95  |
| 247919   | MCH   | PIC17C44-33/P    | DIP-40  | 8k OTP, 454-bit, 33MHz, 33 I/O   | 9.95  | 8.95  |
| 247943   | MCH   | PIC17C756A-33I/L | PLCC-68 | 16k OTP, 902-bit, 33MHz, 50 I/O  | 11.95 | 10.95 |
| 247951   | MCH   | PIC17C762-16/L   | PLCC-44 | 8k OTP, 678-bit, 33MHz, 66 I/O   | 12.95 | 11.95 |
| 247960   | MCH   | PIC17C766-33I/L  | PLCC-84 | 16k OTP, 902-bit, 33MHz, 66 I/O  | 14.95 | 12.95 |

Ⓢ Blue Part No. = Limited Quantity Available

## Microcontrollers (Continued)

★ Web Code: PAV

| Part No. | *Mfr. | Mfr. Part No.    | Pkg.    | Description                                    | 1      | 10     |
|----------|-------|------------------|---------|--|--------|--------|
| 200491   | MCH   | PIC18C242-I/SP   | DIP-28  | 16k OTP, 512-bit, 40MHz, 23 I/O                | \$5.25 | \$4.49 |
| 200504   | MCH   | PIC18C252-I/SP   | DIP-28  | 32k OTP, 1536-bit, 40MHz, 23 I/O               | 5.49   | 4.95   |
| 247994   | MCH   | PIC18F252-I/SP   | DIP-28  | 32k flash, 40MHz, 23 I/O, I-temp               | 5.39   | 5.25   |
| 248081   | MCH   | PIC18F442-I/L    | PLCC-44 | 768-bit, 8k flash, 40MHz, 34 I/O               | 5.95   | 5.75   |
| 312477   | MCH   | PIC18F448-I/L    | PLCC-44 | 768-bit, 16k flash, 40MHz, 33 I/O              | 7.95   | 6.49   |
| 248031   | MCH   | PIC18F452-I/P    | DIP-40  | 32k flash, 40MHz, 34 I/O, I-temp               | 5.95   | 5.75   |
| 248049   | MCH   | PIC18F452-I/L    | PLCC-44 | 32k flash, 40MHz, 34 I/O, I-temp               | 6.75   | 6.25   |
| 248057   | MCH   | PIC18F458-I/P    | DIP-40  | 32k flash, 40MHz, 33 I/O, I-temp               | 6.95   | 6.75   |
| 248129   | MCH   | PIC18F1320-I/SO  | SOIC-18 | 256-bit, 4k flash, 40MHz, 16 I/O               | 2.49   | 2.25   |
| 248111   | MCH   | PIC18F1320-I/P   | DIP-18  | 8k flash, 40MHz, 16 I/O, I-temp                | 3.95   | 3.49   |
| 312303   | MCH   | PIC18F2525-I/SP  | DIP-28  | 48k flash, 40MHz, 25 I/O, I-temp               | 6.95   | 6.25   |
| 248330   | ATM   | ATMEGA8-16PI     | DIP-28  | 8kB flash, 16MHz, 23 I/O, I-temp               | 2.95   | 2.65   |
| 248161   | ATM   | ATTINY11-6SI     | SOIC-8  | 8-bit MCU, 1kB flash, 6MHz, 6 I/O, I-temp      | 1.95   | 1.25   |
| 765302   | ATM   | ATTINY13-20PU    | DIP-8   | 1kB flash, 20MHz, 6 I/O, I-temp                | 1.95   | 1.75   |
| 168874   | ATM   | AT89C2051-24PU   | DIP-20  | 2kB flash, 24MHz, 15 I/O, C-temp               | 1.09   | .89    |
| 204089   | ATM   | AT89C4051-24PC   | DIP-20  | 4kB flash, 24MHz, 15 I/O, C-temp               | 1.95   | 1.49   |
| 323133   | ATM   | ATMEGA16-16PU    | DIP-40  | 6kB flash, 16MHz, 32 I/O, I-temp               | 4.75   | 3.95   |
| 689039   | ATM   | ATTINY2313V-10PU | DIP-20  | 2kB flash, 10MHz, 18 I/O, I-temp               | 2.25   | 1.59   |
| 1537061  | ATM   | ATTINY2313-20PU  | DIP-20  | 2k flash, 20MHz, 18 I/O, I-temp                | 2.15   | 1.79   |
| 248217   | ATM   | ATTINY26-16PC    | DIP-20  | 2kB flash, 16MHz, 16 I/O, C-temp               | 2.05   | 1.49   |
| 699552   | NXP   | P80C31SBPN       | DIP-40  | 128 x 8 RAM, LV (2.7-5.5V), LP, hi-spd (33MHz) | 1.95   | 1.75   |
| 323141   | ATM   | ATMEGA8515-16PC  | DIP-40  | 8kB flash, 16MHz, 35 I/O, C-temp               | 4.95   | 4.75   |
| 395621   | ATM   | ATMEGA8515L-8PC  | DIP-40  | 8kB flash, 8MHz, 35 I/O, C-temp                | 3.49   | 2.95   |
| 168911   | ATM   | AT89C51-24JC     | PLCC-44 | 4kB flash, 24MHz, 32 I/O, C-temp               | 3.95   | 3.49   |
| 168903   | ATM   | AT89C51-24PC     | DIP-40  | 4kB flash, 24MHz, 32 I/O, C-temp               | 3.95   | 3.49   |
| 168920   | ATM   | AT89C52-24PC     | DIP-40  | 8kB flash, 24MHz, 32 I/O, C-temp               | 2.95   | 2.49   |
| 220871   | ATM   | AT89S52-24JI     | PLCC-44 | 8kB flash, 24MHz, 32 I/O, I-temp               | 1.35   | 1.25   |
| 662637   | ATM   | AT89S52-24PC     | DIP-40  | 8kB flash, 24MHz, 32 I/O, C-temp               | 1.75   | 1.65   |
| 168946   | ATM   | AT89C55WD-24PC   | DIP-40  | 20kB flash, 24MHz, 32 I/O, C-temp              | 3.49   | 3.25   |
| 114403   | DAL   | DS80C320-MCG     | DIP-40  | High speed LP micro, C-temp                    | 10.95  | 8.95   |
| 1951035  | ATM   | AT89S8253-24PU   | DIP-40  | 12kB flash, 24MHz, 32 I/O, I-temp              | 3.95   | 3.49   |
| 248663   | TI    | MSP430F1121AIPW  | SSOP-20 | 16-bit MCU, flash, 8MHz 4k ROM, 14 I/O         | 2.95   | 2.49   |

## 16-Bit Digital Signal Controllers

The dsPIC® Digital Signal Controller (DSC) from Microchip is a powerful 16-bit (data) modified Harvard RISC machine that combines the control advantages of a high-performance 16-bit microcontroller (MCU) with the high computation speed of a fully implemented digital signal processor (DSP) to produce a tightly coupled single-chip single-instruction stream solution for embedded systems design. All integrate FLASH program memory and most have EEPROM data storage.

- Memory: flash
- Speed: 40MHz

| Part No. | Mfr. | Part No.             | Pkg.    | MIPS | Program Mem. Bytes | SRAM Bytes | 1      | 10     |
|----------|------|----------------------|---------|------|--------------------|------------|--------|--------|
| 321787   |      | DSPIC30F2010-20/SOG  | SOIC-28 | 20   | 12k                | 512        | \$5.95 | \$5.75 |
| 321808   |      | DSPIC30F2010-30I/SOG | SOIC-28 | 30   | 12k                | 512        | 6.95   | 6.75   |
| 321816   |      | DSPIC30F6010-20I/PF  | TQFP-80 | 20   | 144k               | 8192       | 15.95  | 14.95  |
| 321832   |      | DSPIC30F6011-20I/PF  | TQFP-64 | 20   | 132k               | 6144       | 14.95  | 13.95  |
| 321859   |      | DSPIC30F6012-20I/PF  | TQFP-64 | 20   | 144k               | 8192       | 13.95  | 12.95  |
| 323053   |      | DSPIC30F6013-20I/PF  | TQFP-80 | 20   | 132k               | 6144       | 14.95  | 13.95  |
| 323061   |      | DSPIC30F6013-30I/PF  | TQFP-80 | 30   | 132k               | 6144       | 15.95  | 14.95  |
| 323070   |      | DSPIC30F6014-20I/PF  | TQFP-80 | 20   | 144k               | 8192       | 14.95  | 13.95  |
| 323088   |      | DSPIC30F6014-30I/PF  | TQFP-80 | 30   | 144k               | 8192       | 15.95  | 14.95  |

## 50MIPS SX Microcontroller

| Part No. | Mfr. | Part No.    | Description                      | 1      | 10     |
|----------|------|-------------|----------------------------------|--------|--------|
| 162931   |      | SX28AC/DG-G | DIP-28 50MIPS SX microcontroller | \$4.95 | \$4.49 |

\* ATM = Atmel Semiconductor | DAL = Dallas Semiconductor | MCH = Microchip | NXP = NXP/Philips Semi | TI = Texas Instruments

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# Controllers, Stamps, Interface Series & Motor Drivers

3 LEVELS OF SAVINGS  
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## MICROMINT 80C52-BASIC Microcontroller

A custom-masked microcontroller with a full-featured 8k-byte ROM-resident BASIC-52 interpreter. 256 x 8-bit RAM.

- Full BASIC interpreter in ROM on a single chip
- Operates DC to 12MHz
- "Stand-alone" software development
- On-chip oscillator and clock circuit
- Interrupts can be handled by BASIC or Assembly Language

| Part No. | Mfr. Part No. | Description                                | 1       | 10      | 50      |
|----------|---------------|--|---------|---------|---------|
| 125647   | 80C52BASIC    | 40-pin CPU 8-bit CMOS w/ BASIC interpreter | \$33.95 | \$31.95 | \$29.95 |

## KAE Servo Controllers

\*Web Code: YBC

Controller operates from standard 8-bit serial interface (RS232 or RS485). Using RS485, any mix of up to 32 controllers may be operated from a single serial port. Complete documentation.

### 146472: PIC-SERVO Motion Control Chipset for DC Motors

- For DC motors with digital encoders
- 32-bit position, velocity and acceleration resolution
- PWM and direction outputs connect to servo amplifier
- Two chipset (PIC-SERVO V.4, 28-pin and PIC-ENC V.1, 18-pin)

### 323934: PIC-SERVO SC Servo Motion Control I.C.

- For DC motors (brush or brushless w/ incremental encoder feedback)
- Serial interface connects to RS232/485/422 communication port
- Position control, velocity control, trapezoidal profiling, plus step and direction inputs

| Part No. | Mfr. Part No. | Package         | 1       | 10      | 50      |
|----------|---------------|-----------------|---------|---------|---------|
| 146472   | KAE-TOV4-DPS  | DIP-28/18, 0.3" | \$35.95 | \$32.95 | \$30.95 |
| 323934   | KAE-TOV10-DP  | DIP-28, 0.3"    | 29.95   | 26.95   | 24.95   |

## KAE Smart Serial Adapter

### Serial Converter/Stand Alone Host Controller

- Supports USB or RS232 serial interface
- Up to 32 NMC PIC-SERVO, PIC-STEP, PIC-I/O modules can be controlled from a single smart serial adapter
- RS232 operation supports baud rates from 19,200 to 115,200
- Supports Windows®, LINUX, Mac® OS, and other operating systems
- May be used as a stand alone host with either the simple sequencer chip or a PIC18F2620 MCU
- On board connector for MICROCHIP MPLAB ICD2

| Part No. | Mfr. Part No.   | Description          | 1       | 5       |
|----------|-----------------|----------------------|---------|---------|
| 1586120  | KAE-SSA485-BDV1 | Smart serial adapter | \$99.95 | \$89.95 |

## PARALLAX BASIC Stamp Modules

\*Web Code: BSM

- 183071: BS2 OEM Kit Z

Complete specifications see [www.Jameco.com](http://www.Jameco.com)

| Part No. | Mfr. Part No. | Package    | Speed         | No. of I/O Pins | 1       | 5       |
|----------|---------------|------------|---------------|-----------------|---------|---------|
| 127693   | BS1-IC        | 14-pin     | 4MHz          | 8               | \$28.95 | \$26.95 |
| 183071   | 27291         | 20-pin SIP | —             | —               | 30.95   | 29.95   |
| 130892   | BS2-IC        | 24-pin     | 20MHz         | 16 + 2          | 48.95   | 43.95   |
| 283047   | BS2E-IC       | 24-pin     | 20MHz         | 16 + 2          | 53.95   | 49.95   |
| 2109641  | BS2PE         | 24-pin     | 8MHz (turbo)  | 16 + 2          | 74.95   | 70.95   |
| 184911   | BS2P24-IC     | 24-pin     | 20MHz (turbo) | 16 + 2          | 74.95   | 69.95   |
| 184920   | BS2P-40-IC    | 40-pin     | 20MHz (turbo) | 16 + 2          | 84.95   | 79.95   |
| 2109350  | BS2PX24       | 24-pin     | 32MHz (turbo) | 16 + 2          | 78.95   | 74.95   |
| 159775   | BS2SX-IC      | 24-pin     | 50MHz (turbo) | 16 + 2          | 55.95   | 51.95   |

See page 194 for Parallax Boards & Kits

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## PARALLAX Propeller Microprocessor Chip

Designed for high-speed embedded processing while maintaining low-power and low-current consumption.

Complete specifications see [www.Jameco.com](http://www.Jameco.com)

| Part No. | Mfr. Part No. | Package | 1       | 10      |
|----------|---------------|---------|---------|---------|
| 2007134  | P8X32A-D40    | DIP-40  | \$12.95 | \$11.95 |

## Tiny Logic® Series

Order in multiples of 10

| Part No. | Mfr. Part No. | Pkg.     | Description                | 10     | 100    |
|----------|---------------|----------|----------------------------|--------|--------|
| 873830   | NC7SU04M5X    | SOT-23/5 | Single unbuffered inverter | \$0.07 | \$0.05 |
| 873725   | NC7S08P5X     | SC-70/5  | Single 2-input AND gate    | .09    | .05    |
| 874138   | NC7SZ125M5X   | SOT-23/5 | Buffer w/ 3-st. output     | .09    | .05    |

## Interface Series

\*Web Code: RBU

| Part No. | *Mfr. | Product No.      | Pkg.    | Description                     | 1      | 10     |
|----------|-------|------------------|---------|---------------------------------|--------|--------|
| 242077   | +     | TC428CPA         | DIP-8   | 4.5-18V, dual MOSFET driver     | \$0.99 | \$0.89 |
| 832448   | +     | DS26LS32ACM/NOPB | SOIC-16 | Quad differential line receiver | .89    | .55    |
| 1291647  | MCH   | TC4420CPA        | DIP-8   | 6A high speed MOSFET driver     | 1.39   | 1.15   |
| 313437   | +     | ICM7218AIJ       | DIP-28  | 5V, 8 digit LCD driver          | 6.95   | 6.25   |
| 312160   | MAX   | MAX7219CNG       | DIP-24  | 5V, 8 digit LCD driver          | 7.95   | 6.95   |
| 313322   | +     | ICM7228AIP       | DIP-28  | 5V, 8 digit LCD driver          | 5.95   | 5.49   |
| 50884    | +     | SN75154N         | DIP-16  | 5-12V, quad line receiver       | .39    | .35    |
| 277940   | +     | SN75179BP        | DIP-8   | 5V, diff line driver/receiver   | 1.29   | 1.09   |
| 277974   | +     | SN75183N         | DIP-14  | 5V, dual diff line driver       | 1.95   | 1.75   |
| 51027    | +     | SN75451AN        | DIP-8   | 7V, dual peripheral AND driver  | .59    | .49    |
| 51131    | +     | SN75492P         | DIP-14  | 5V, HEX digit driver            | 4.95   | 4.49   |

\*Ethernet Controllers Available Online — Enter Web Code LAE

\*Interface Controllers Available Online — Enter Web Code HAS



## Digital Interface

\*Web Code: WBB

| Part No. | Mfr. Part No. | Pkg.   | Description                                | 1      | 10     | 50     |
|----------|---------------|--------|--|--------|--------|--------|
| 171951   | EDE702        | DIP-18 | Serial LCD interface                       | \$7.19 | \$6.75 | \$6.25 |
| 171969   | EDE1144       | DIP-18 | Keypad encoder                             | 5.19   | 4.95   | 4.75   |
| 141532   | EDE1200       | DIP-18 | Unipolar stepper motor controller          | 6.39   | 6.15   | 5.95   |
| 157526   | EDE1204       | DIP-18 | Bipolar stepper motor controller           | 6.39   | 6.15   | 5.95   |
| 321736   | EDE2008       | DIP-18 | Pushbutton debouncer w/ 8-independent chan | 4.19   | 3.95   | 3.75   |
| 321761   | EDE2208/P     | DIP-18 | 8-pushbutton momentary to toggle           | 4.19   | 3.95   | 3.75   |

## Motor/Display Drivers

\*Web Code: DAD

| Part No. | *Mfr. | Product No.    | Pkg.    | Description                            | 1      | 10     | 100    |
|----------|-------|----------------|---------|--|--------|--------|--------|
| 25216    | ON    | MC3479P        | DIP-16  | 7.2-16.5V, stepper motor driver        | \$5.95 | \$5.49 | \$4.95 |
| 1762681  | ALL   | UDN2981A-T     | DIP-18  | 8-channel source driver                | 1.79   | 1.59   | 1.39   |
| 24230    | NSC   | LM3914N        | DIP-18  | 25V, dot/bar display driver            | 2.75   | 2.49   | 2.25   |
| 300003   | NSC   | LM3914N-1      | DIP-18  | 25V, dot/bar display driver            | 1.95   | 1.85   | 1.59   |
| 901010   | NSC   | LM3914N-1/NOPB | DIP-18  | 25V, dot/bar display driver            | 2.35   | 1.95   | 1.45   |
| 246625   | NSC   | LM3914V        | PLCC-20 | 25V, dot/bar display driver            | 2.49   | 2.25   | 1.95   |
| 24256    | NSC   | LM3915N        | DIP-18  | 25V, dot/bar display driver            | 2.75   | 2.49   | 2.25   |
| 901061   | NSC   | LM3915N-1      | DIP-18  | 3dB/step, 30db range dot/bar disp. dvr | 3.09   | 2.49   | 1.95   |
| 24272    | NSC   | LM3916N        | DIP-18  | 3-25V, dot/bar display driver          | 2.75   | 2.49   | 2.25   |
| 241824   | MOT   | MC14489BP      | DIP-20  | 5V, 7-segment LED display driver       | 3.95   | 3.25   | 2.95   |

Ⓢ Blue Part No. = Limited Quantity Available

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Ⓡ RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 197.





## Stepper Motor Drivers/Controllers

\*Web Code: GDP

| Part No. | Mfr. Part No. | Pkg.    | Description                     | 1      | 10     | 100    |
|----------|---------------|---------|---------------------------------|--------|--------|--------|
| 924545   | L293DD        | SOIC-20 | Push pull 4-ch driver w/ diodes | \$4.49 | \$3.75 | \$3.25 |
| 288067   | L2971         | DIP-20  | Stepper motor controller, 5V    | 8.95   | 7.95   | 6.95   |
| 245403   | L298N         | MW-15   | Dual full-bridge driver, 46V    | 2.59   | 2.45   | 2.25   |
| 288091   | L6202         | DIP-18  | DMOS full-bridge driver, 48V    | 5.95   | 5.49   | 4.95   |
| 288104   | L6203         | MW-11   | DMOS full-bridge driver, 48V    | 6.95   | 6.25   | 5.49   |

\*Motion Control Available Online — Enter Web Code DEU

## Encoders/Decoders

\*Web Code: VAR

| Part No. | *Mfr. | Product No.  | Pkg.    | Description                              | 1      | 10     | 100    |
|----------|-------|--------------|---------|--|--------|--------|--------|
| 243408   | +     | TP3054N      | DIP-16  | U-law PCM CODEC & filter, 5V             | \$2.45 | \$1.75 | \$1.45 |
| 296702   | MOT   | MC145026P    | DIP-16  | Encoder, 4.5-18V                         | 2.49   | 2.25   | 2.05   |
| 296711   | MOT   | MC145027P    | DIP-16  | Decoder, 4.5-18V                         | 2.95   | 2.75   | 2.49   |
| 123730   | HOL   | HT12E        | DIP-18  | Encoder, 2.4-12V                         | 1.75   | 1.55   | 1.35   |
| 123748   | HOL   | HT12D        | DIP-18  | Decoder, 2.4-12V                         | 1.65   | 1.45   | 1.25   |
| 243483   | MCH   | HCS512-I/P   | DIP-18  | Code hopping decoder, 4-6V               | 4.95   | 4.25   | 3.95   |
| 287945   | MCH   | MCP2140-I/P  | DIP-18  | Standard protocol stack controller, 3-5V | 2.95   | 2.75   | 1.49   |
| 287970   | MCH   | MCP2150-I/SO | SOIC-18 | Standard protocol stack controller, 3-5V | 3.95   | 2.95   | 2.75   |
| 243459   | MCH   | MCP2150-I/P  | DIP-18  | Standard protocol stack controller, 3-5V | 2.95   | 2.75   | 2.49   |

## Buffer

\*Web Code: WBR

| Part No. | Product No. | Pkg.   | Description            | 1       | 10      | 100     |
|----------|-------------|--------|------------------------|---------|---------|---------|
| 23051    | LH0002CN    | DIP-10 | General purpose buffer | \$12.95 | \$11.95 | \$10.95 |

## Power Management

\*Web Code: PMT

| Part No. | *Mfr. | Product No.   | Pkg.    | Description                              | 1      | 10     |
|----------|-------|---------------|---------|--|--------|--------|
| 312848   | TI    | BQ2004PN      | DIP-16  | NiMH/NiCd switchmode chrg mgmt w/ neg dV | \$2.95 | \$2.49 |
| 312928   | TI    | BQ2018TS-E    | TSSOP-8 | Rechargeable battery power monitor       | 3.95   | 3.49   |
| 312936   | TI    | BQ2019PW      | TSSOP-8 | Rechargeable battery power monitor       | 3.49   | 3.25   |
| 312881   | TI    | BQ2040SN-D111 | SOIC-16 | Li-Ion/NiMH/NiCd gas gauge w/ smbus      | 5.95   | 4.95   |

## RS-422/423/485 Drivers/Receivers

\*Web Code: NBT

|          |       |             |        |  | * Order in multiples of 10 |        |        |
|----------|-------|-------------|--------|--|----------------------------|--------|--------|
| Part No. | *Mfr. | Product No. | Pkg.   | Description                            | 1                          | 10     | 100    |
| 299807   | +     | LTC485CN8   | DIP-8  | RS-485 LP xcvr, 5V                     | \$1.75                     | \$1.49 | \$1.25 |
| 244195   | +     | MAX1487CPA  | DIP-8  | RS-485/422 LP xcvr, 12V                | 2.25                       | 1.75   | 1.55   |
| 39571    | +     | 26LS30      | DIP-16 | RS-422/423 line driver, 5V             | 2.49                       | 2.25   | 1.95   |
| 39600    | +     | 26LS32      | DIP-16 | RS-422/423 quad diff. line rcvr, 5V    | .59                        | .49    | .45    |
| 25232    | +     | MC3486P     | DIP-16 | RS-422/423 quad diff. line rcvr, 5V    | *                          | .15    | .12    |
| 25259    | +     | MC3487P     | DIP-16 | RS-422/423 quad line driver, 5V        | .29                        | .25    | .22    |
| 50948    | +     | SN75174N    | DIP-16 | RS-422 quad diff. line driver w/ 3 st. | .89                        | .79    | .69    |
| 50956    | +     | SN75175N    | DIP-16 | RS-422/423 quad diff. line rcvr, 5V    | .89                        | .79    | .69    |
| 758364   | TI    | SN75176AP   | DIP-8  | RS-422 differential bus xcvr           | .65                        | .55    | .45    |
| 50964    | +     | SN75176BN   | DIP-8  | RS-422 diff. line bus xcvr, 5V         | .59                        | .49    | .45    |

\* Blue Part No. = Limited Quantity Available

\*65LVDS Series Available Online — Enter Web Code UEU

## RS-232 Drivers/Receivers

\*Web Code: EAV

| Part No. | *Mfr. | Product No. | Pkg.    | Description                          | 1      | 10     | 100    |
|----------|-------|-------------|---------|--------------------------------------|--------|--------|--------|
| 142535   | +     | MAX202CPE   | DIP-16  | 5V, 120kpbs, w/ 0.1µF ext. caps      | \$2.49 | \$2.05 | \$1.95 |
| 244232   | +     | MAX202CSE   | SOIC-16 | 5V, 120kpbs, w/ 0.1µF ext. caps      | 2.25   | 1.95   | 1.75   |
| 244241   | +     | MAX202EPE   | DIP-16  | 5V, 120kpbs, w/ 0.1µF ext. caps      | 2.95   | 2.49   | 2.25   |
| 282790   | MAX   | MAX211CAI   | SSOP-28 | 5V, w/ 0.1µF ext. caps               | 2.95   | 2.75   | 2.49   |
| 875448   | INS   | HIN232CP    | DIP-16  | 5V hi spd RS-232 transmitter/rcvr    | 1.09   | .99    | .89    |
| 24811    | +     | MAX232CPE*  | DIP-16  | 5V, 200kpbs, multichannel            | 1.85   | 1.65   | 1.25   |
| 24812    | +     | MAX232CPE   | DIP-16  | 5V, 200kpbs, multichannel            | 1.95   | 1.75   | 1.35   |
| 318959   | MAX   | MAX232CPE   | DIP-16  | 5V, 200kpbs, multichannel            | 2.25   | 1.95   | 1.75   |
| 318960   | MAX   | MAX232CPE   | DIP-16  | 5V, 200kpbs, multichannel            | 2.49   | 2.15   | 1.95   |
| 106147   | +     | MAX232CWE   | SOIC-16 | 5V, 120kpbs, multichannel            | 2.49   | 2.15   | 1.95   |
| 256401   | +     | MAX232DR    | SOIC-16 | 5V, 120kpbs, dual driver/rcvr        | .69    | .59    | .49    |
| 882293   | MAX   | MAX232ECE   | DIP-16  | 5V, RS-232 xcvr, ±15kV ESD           | 3.75   | 3.09   | 2.95   |
| 106155   | +     | MAX232EPE   | DIP-16  | 5V, 120kpbs, multichannel            | 3.95   | 3.15   | 2.79   |
| 698576   | TI    | MAX232N     | DIP-16  | Dual EIA-232 driver/receiver, C-temp | .75    | .65    | .55    |
| 903277   | TI    | MAX232IN    | DIP-16  | Dual EIA-232 driver/receiver, I-temp | .75    | .65    | .55    |
| 106163   | +     | MAX233CPP   | DIP-20  | 5V, 120kpbs, multichannel            | 5.75   | 4.75   | 4.25   |
| 106171   | +     | MAX235CPG   | DIP-24  | 5V, 120kpbs, multichannel            | 10.95  | 9.95   | 7.95   |
| 106180   | +     | MAX238CNG   | DIP-24  | 5V, 120kpbs, multichannel            | 5.49   | 4.95   | 4.25   |
| 23157    | +     | DS1488N*    | DIP-14  | 15V, quad line driver                | .35    | .29    | .25    |
| 16379    | +     | DS14C89N    | DIP-14  | 5V, quad line receiver               | 1.19   | 1.09   | .95    |
| 235301   | +     | DS14C232CN  | DIP-16  | 5V, LP, TIA/EIA dual driver/rcvr     | 2.49   | 2.25   | 1.95   |
| 23181    | +     | SN75189N*   | DIP-14  | 5V, quad line receiver               | .35    | .29    | .25    |
| 25099    | +     | MC145406P   | DIP-16  | 5-12V, EIA-232-D/V.28 driver/rcvr    | 2.25   | 1.95   | 1.75   |
| 929207   | ON    | MC10EP17DWG | SOIC-20 | Quad differential driver/receiver    | 15.95  | 13.95  | 11.95  |

\*10 pcs. in Linear series IC cabinet kit, pg 16

## Comparators

\*Web Code: EBS

|          |       |             |         |  | * Order in multiples of 10 |        |        |
|----------|-------|-------------|---------|--|----------------------------|--------|--------|
| Part No. | *Mfr. | Product No. | Pkg.    | Description                                  | 1                          | 10     | 100    |
| 311044   | NSC   | LM111J-8    | DIP-8   | Voltage comparator                           | \$7.95                     | \$6.95 | \$6.25 |
| 282087   | +     | LM139J      | CDIP-14 | Low power, low offset volt quad              | 1.75                       | 1.55   | 1.35   |
| 23528    | +     | LM311N*     | DIP-8   | Voltage comparator                           | .25                        | .22    | .19    |
| 902522   | TI    | LM311DR     | SOIC-8  | Differential comparator w/ strobes           | *                          | .12    | .09    |
| 837812   | NSC   | LM311N/NOBP | DIP-8   | Voltage comparator                           | .89                        | .69    | .49    |
| 143888   | +     | LM339AN     | DIP-14  | Low power quad comparator                    | .25                        | .22    | .15    |
| 826742   | TI    | LM339N      | DIP-14  | Quad differential comparator                 | .35                        | .29    | .25    |
| 23851    | +     | LM339N*     | DIP-14  | Quad comparator                              | .25                        | .22    | .17    |
| 193594   | +     | LM339M      | SOIC-14 | Low power low offset volt quad               | .25                        | .22    | .15    |
| 120900   | +     | LM392N      | DIP-8   | Low power op amp/volt comp.                  | 1.09                       | .99    | .89    |
| 24281    | +     | LM393N*     | DIP-8   | Dual comparator                              | .25                        | .22    | .17    |
| 212177   | +     | LM393AN     | DIP-8   | Low power low offset volt quad comp.         | *                          | .19    | .15    |
| 297844   | MAX   | MAX902CSD   | SOIC-14 | Hi-speed low power precision volt comp.      | 7.95                       | 5.95   | 4.95   |
| 312266   | LTC   | LT1016CS8   | SOIC-8  | Ultra-fast precision 10ns comparator         | 2.95                       | 1.95   | 1.75   |
| 107238   | +     | LM3302N     | DIP-14  | Low power low offset volt quad               | .59                        | .49    | .45    |
| 1944741  | ST    | TS3721IN    | DIP-8   | LP dual CMOS volt (I-temp)                   | .39                        | .35    | .25    |
| 277173   | NSC   | LMC7211AIM  | SOIC-8  | Comp w/ rail-to-rail input, push pull output | .99                        | .79    | .69    |
| 277190   | NSC   | LMC7211BIM  | SOIC-8  | Comp w/ rail-to-rail input, push pull output | .99                        | .79    | .69    |

\*10 pcs./\*\*20 pcs. included in Linear kit, pg 16

\*IEEE-1394 Available Online — Enter Web Code KEN



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## Audio Amps

\*Web Code: MBP

| Part No. | *Mfr. | Product No.   | Pkg./Pins | Description                                | 1      | 10     | 100    |
|----------|-------|---------------|-----------|--|--------|--------|--------|
| 243678   | ADI   | OP275GP       | DIP-8     | Dual JFET audio op amplifier               | \$2.25 | \$1.85 | \$1.49 |
| 24037    | NSC   | LM380N        | DIP-14    | 2-watt, power amplifier                    | 1.39   | 1.09   | .75    |
| 24088    | NSC   | LM383T        | TO-220/5  | 7-watt, high power                         | 5.95   | 5.49   | 4.95   |
| 24096    | NSC   | LM384N        | DIP-14    | 5-watt audio amplifier                     | 1.65   | 1.45   | 1.05   |
| 24125    | NSC   | LM386N-1*     | DIP-8     | Low voltage, 250mW/6V                      | .79    | .59    | .45    |
| 24126    | NSC   | LM386N-1      | DIP-8     | Low voltage, 250mW/6V                      | .65    | .49    | .41    |
| 839826   | NSC   | LM386N-1/NOBP | DIP-8     | Low voltage audio power amp.               | .99    | .79    | .55    |
| 24133    | NSC   | LM386N-3*     | DIP-8     | Low voltage, 500mW/9V                      | .69    | .59    | .49    |
| 24483    | NSC   | LM725CN       | DIP-8     | Instrumentation op amplifier               | 1.95   | 1.25   | .95    |
| 295718   | NSC   | LM1203N       | DIP-28    | RGB video amplifier                        | 5.95   | 5.49   | 4.95   |
| 24942    | ON    | MC1350P       | DIP-8     | Video IF amp. (12V operation)              | 2.95   | 2.75   | 2.49   |
| 23270    | NSC   | LM1875T       | TO-220/5  | 20-watt audio power amp.                   | 2.95   | 2.49   | 1.95   |
| 23288    | NSC   | LM1877N-9     | DIP-14    | Dual power audio amplifier                 | 1.95   | 1.75   | 1.49   |
| 107140   | NSC   | LM1881N       | DIP-8     | Video synchronous separator                | 2.49   | 2.25   | 1.59   |
| 32897    | ST    | TDA2002V      | TO-220/5  | 8-watt audio high power amp.               | 4.95   | 4.49   | 3.95   |
| 1416999  | ST    | TDA2030V      | PWAT-5    | 14-watt hi-fi audio amp.                   | 3.95   | 3.49   | 3.25   |
| 315344   | ST    | TDA2040V      | PWAT-5    | 20-watt hi-fi power                        | 2.25   | 1.95   | 1.75   |
| 275830   | TI    | OPA2134PA     | DIP-8     | High performance audio op amp.             | 3.25   | 2.95   | 2.75   |
| 275821   | ADI   | OPA2134UA     | SOIC-8    | High-performance audio op amp.             | 1.95   | 1.69   | 1.45   |
| 312063   | ADI   | SSM2141P      | DIP-8     | High common-mode rejection diff. line rec. | 2.95   | 2.15   | 1.95   |
| 320670   | NSC   | LM3886TF      | TO-220/11 | 68-watt high-perf., isol. pkg.             | 5.95   | 4.95   | 4.25   |
| 192516   | NSC   | LM3886T       | TO-220/11 | 68-watt high-performance                   | 5.95   | 4.95   | 3.95   |
| 302201   | NSC   | LM4752T       | TO-220/7  | Stereo 11-watt audio power amp.            | 2.95   | 2.75   | 2.49   |
| 316873   | MOT   | MC34119D      | SOIC-8    | LP audio amp. (500mW, 16VDC)               | 1.19   | 1.09   | .89    |
| 316865   | MOT   | MC34119P      | DIP-8     | LP audio amp. (500mW, 16VDC)               | 2.25   | 2.05   | 1.85   |

\*10 pieces included in Linear kit, pg 16      ♦ Blue Part No. = Limited Quantity Available

\*Instrumentation Amps Available Online — Enter Web Code NDA

## Amplifiers

| Part No. | Mfr. Part No. | Pkg.   | Description                                   | 1       | 10      | 100     |
|----------|---------------|--------|---|---------|---------|---------|
| 1805943  | ADXL213AE     | LCC-8  | 5V, low cost $\pm 2g$ dual-axis accelerometer | \$16.95 | \$15.95 | \$14.95 |
| 1780862  | AD620ANZ      | DIP-8  | Low cost, LP instrumentation amp .....        | 6.75    | 5.49    | 4.75    |
| 1781136  | AD627AR       | SOIC-8 | Low cost, instrumentation amp .....           | 4.95    | 3.95    | 3.49    |
| 311132   | AD811AN       | DIP-8  | High performance, video op amp .....          | 7.49    | 6.25    | 5.75    |

## A/D & D/A Converters

\*Web Code: QAG

| Part No. | *Mfr. | Product No.     | Pkg.     | Description                                  | 1      | 10     | 100    |
|----------|-------|-----------------|----------|--|--------|--------|--------|
| 277149   | MAX   | MAX110ACWE      | SOIC-16  | A/D, 14-bit, 5V, 50sps, 2-ch                 | \$9.95 | \$8.75 | \$8.25 |
| 277131   | MAX   | MAX110BCPE      | DIP-16   | A/D, 14-bit, 5V, 50sps, 2-ch                 | 12.95  | 9.95   | 9.49   |
| 277122   | MAX   | MAX110BCWE      | SOIC-16  | A/D, 14-bit, 5V, 50sps, 2-ch                 | 8.95   | 6.75   | 6.25   |
| 277069   | MAX   | MAX197BCNI      | DIP-28   | A/D, 12-bit, 5V, 10Ksps, 8-ch                | 19.95  | 13.95  | 11.95  |
| 289545   | TI    | TLC540IDW       | SOIC-20  | A/D, 8-bit, 5V, 75Ksps                       | 3.49   | 2.95   | 2.49   |
| 289553   | TI    | TLC540IFN       | PLCC-20  | A/D, 8-bit, 5V, 75Ksps                       | 3.49   | 2.95   | 2.49   |
| 289596   | TI    | TLC541IDW       | SOIC-20  | A/D, 8-bit, 5V, 40Ksps                       | 2.95   | 2.49   | 1.95   |
| 289705   | TI    | TLC542IFN       | PLCC-20  | A/D, 8-bit, 5V, 25Ksps                       | 1.95   | 1.75   | 1.49   |
| 289713   | TI    | TLC545CN        | DIP-28   | A/D, 8-bit, 5V, 76Ksps                       | 4.95   | 4.25   | 3.95   |
| 10145    | NSC   | ADC0803LCN      | DIP-20   | A/D, 8-bit, 5V, 9.1Ksps, 1-ch                | 3.95   | 3.25   | 2.95   |
| 10153    | NSC   | ADC0804LCN      | DIP-20   | A/D, 8-bit, 5V, 9.1Ksps, 1-ch                | 2.75   | 2.25   | 1.85   |
| 828342   | NSC   | ADC0804LCN/NOBP | DIP-20   | A/D, 8-bit $\mu P$ compatible ( $\pm 1LSB$ ) | 2.95   | 2.35   | 2.05   |
| 10170    | NSC   | ADC0808CCN      | DIP-28   | A/D, 8-bit, 5V, 9.1Ksps, 8-ch                | 4.75   | 3.95   | 3.39   |
| 10188    | NSC   | ADC0809CCN      | DIP-28   | A/D, 8-bit, 5V, 9.1Ksps, 8-ch                | 2.59   | 2.39   | 2.25   |
| 831031   | NSC   | ADC0816CCN      | DIP-40   | A/D, 8-bit, $\mu P$ comp. ADC w/ 16-ch.      | 11.95  | 10.25  | 9.25   |
| 10209    | NSC   | ADC0817CCN      | DIP-40   | A/D, 8-bit, 5V, 9.1Ksps, 16-ch               | 4.95   | 3.95   | 3.49   |
| 10225    | NSC   | ADC0820CCN      | DIP-20   | A/D, 8-bit, 5V, 1.5 $\mu s$                  | 3.49   | 3.15   | 2.49   |
| 116100   | NSC   | ADC0831CCN      | DIP-8    | A/D, 8-bit, 5V, 32 $\mu s$                   | 1.75   | 1.55   | 1.35   |
| 1252488  | NSC   | ADC0838CCN/NOBP | DIP-20   | A/D, 8-bit serial, 5V, 32 $\mu s$            | 2.75   | 2.25   | 1.75   |
| 290538   | TI    | TLC0832CD       | SOIC-8   | A/D, 8-bit, 3V, 32 $\mu s$                   | 2.49   | 2.25   | 1.75   |
| 288681   | TI    | THS1030IDW      | SOIC-28  | A/D, 10-bit, 3-5.5V, 30Msps                  | 5.95   | 4.95   | 4.49   |
| 288729   | TI    | THS1031IPW      | TSSOP-28 | A/D, 10-bit, 3-5.5V, 30Msps                  | 6.95   | 5.49   | 5.25   |

\*ADI = Analog Devices | INS = Intersil | LTC = Linear Tech | MAX = Maxim | MCH = Microchip | MOT = Motorola | NSC = National Semi | ON = ON Semi | SAM = Samsung | ST = ST Micro | TI = Texas Instruments | ♦ Varies

RoHS compliant product    + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.    Details on page 197.

## A/D & D/A Converters (Continued)

\*Web Code: QAG

| Part No. | *Mfr. | Product No.    | Pkg.     | Description                                  | 1       | 10      | 100     |
|----------|-------|----------------|----------|--|---------|---------|---------|
| 1748897  | LTC   | LTC1403AIMSE-1 | MSOP-10  | A/D, 14-bit, 2.8Msps samp ADC                | \$14.95 | \$12.95 | \$10.95 |
| 289001   | TI    | TLC1541CDW     | SOP-20   | A/D, 10-bit, 5V, 32Ksps                      | 4.95    | 4.25    | 3.95    |
| 289019   | TI    | TLC1541CN      | DIP-20   | A/D, 10-bit, 5V, 32Ksps                      | 4.95    | 4.49    | 4.25    |
| 289078   | TI    | TLC1542CDW     | SOP-20   | A/D, 10-bit, 5V, 26 $\mu s$ , 11-ch          | 3.95    | 2.75    | 2.49    |
| 289271   | TI    | TLC1543QDB     | SSOP-20  | A/D, 10-bit, 6.5V, 5V, 26 $\mu s$ , 11-ch    | 3.95    | 3.49    | 2.95    |
| 289300   | TI    | TLC1543QDW     | SOIC-20  | A/D, 10-bit, 6.5V, 5V, 26 $\mu s$ , 11-ch    | 3.95    | 3.49    | 2.95    |
| 288593   | TI    | PCM1800E       | SSOP-24  | A/D, 20-bit, 5V, 32-48KHz, 2-ch              | 3.49    | 3.25    | 2.95    |
| 288622   | TI    | PCM1801U       | SOIC-14  | A/D, 20-bit, 5V, 32-48KHz, 2-ch              | 3.95    | 3.49    | 3.25    |
| 290634   | TI    | TLV2543CDW     | SOIC-20  | A/D, 12-bit, 3.3V, 10 $\mu s$ , 11-ch        | 7.95    | 5.95    | 4.95    |
| 290669   | TI    | TLV2543CN      | DIP-20   | A/D, 12-bit, 3.3V, 10 $\mu s$ , 11-ch        | 7.95    | 5.95    | 4.95    |
| 288016   | MCH   | MCP3302-CI/SL  | SOIC-14  | A/D, 13-bit, 2.7-5.5V, 50-100Ksps, 2-ch      | 2.95    | 2.49    | 2.25    |
| 288024   | MCH   | MCP3302-CI/ST  | TSSOP-14 | A/D, 13-bit, 2.7-5.5V, 50-100Ksps, 2-ch      | 2.49    | 2.35    | 2.15    |
| 43748    | ♦     | 7106CPL        | DIP-40   | A/D, 3 1/2-digit LCD/LED, 9V                 | 2.25    | 1.95    | 1.75    |
| 43756    | ♦     | 7107CPL        | DIP-40   | A/D, 3 1/2-digit LCD/LED, $\pm 5V$           | 2.49    | 2.25    | 1.95    |
| 875683   | INS   | ICL7107CPL     | DIP-40   | A/D, 3 1/2-digit LCD/LED, 6V                 | 3.25    | 2.95    | 2.59    |
| 43764    | ♦     | 7109CPL        | DIP-40   | A/D, 12-bit, 5V, 30sps, 1-ch                 | 3.95    | 2.25    | 1.95    |
| 115158   | ADI   | AD558JN        | DIP-16   | D/A, 8-bit, 5-15V, 1-5-3 $\mu s$ , 1-ch      | 12.95   | 11.75   | 10.49   |
| 1944581  | SAM   | KDA0408        | DIP-42   | D/A, 8-bit, 5V, 60Msps, triple               | .49     | .39     | .35     |
| 14904    | NSC   | DAC0800LCN     | DIP-16   | D/A, 8-bit, 4.5-18V, 150ns                   | 1.49    | 1.19    | .89     |
| 14947    | NSC   | DAC0808LCN     | DIP-16   | D/A, 8-bit, 4.5-18V, 150ns                   | 1.65    | 1.25    | .95     |
| 14963    | NSC   | DAC0830LCN     | DIP-20   | D/A, 8-bit, 5-15V, 1 $\mu s$                 | 4.95    | 4.25    | 3.49    |
| 128186   | NSC   | DAC0832LCN     | DIP-20   | D/A, 8-bit, 5-15V, 1 $\mu s$                 | 3.49    | 2.75    | 2.49    |
| 290781   | TI    | TLV5604ID      | SOIC-16  | D/A, 10-bit, 2.7-5.5V, 20MHz, 4-ch           | 5.95    | 4.75    | 4.49    |
| 290790   | TI    | TLV5604IPW     | TSSOP-16 | D/A, 10-bit, 2.7-5.5V, 20MHz, 4-ch           | 5.95    | 4.75    | 4.49    |
| 290853   | TI    | TLV5613IPW     | TSSOP-20 | D/A, 12-bit, 2.7-5.5V, 3-7 $\mu s$ , 1-ch    | 5.95    | 4.95    | 3.75    |
| 290933   | TI    | TLV5614CPW     | TSSOP-16 | D/A, 12-bit, 2.7-5.5V, 5.5-20 $\mu s$ , 4-ch | 10.95   | 9.95    | 8.95    |
| 296690   | ADI   | AD7226KN       | DIP-20   | D/A, 8-bit, 2-12.5V, 4 $\mu s$ , 4-ch        | 9.95    | 8.95    | 7.95    |
| 1783887  | ADI   | AD7398BRUZ     | TSSOP-16 | D/A, 12-bit, quad serial in                  | 15.95   | 13.95   | 11.95   |
| 290052   | TI    | TLC7524CN      | DIP-16   | D/A, 8-bit, 5-15V, 100ns                     | 2.75    | 2.49    | 2.05    |
| 287380   | ADI   | AD9760AR       | SOIC-28  | D/A, 10-bit, 3-5V, 125Msps                   | 5.95    | 3.95    | 2.95    |

## Op Amps

\*Web Code: WAD

| Part No. | *Mfr. | Product No. | Pkg.   | Description                    | 1      | 10     | 100    |
|----------|-------|-------------|--------|--------------------------------|--------|--------|--------|
| 27852    | ♦     | OP07CP      | DIP-8  | Ultra-low offset voltage       | \$ .75 | \$ .65 | \$ .55 |
| 252988   | ♦     | OP07DP      | DIP-8  | Very low offset single bipolar | .69    | .59    | .49    |
| 23106    | ♦     | LM10CLN     | DIP-8  | Low voltage (1.1 volt)         | 2.75   | 2.49   | 1.75   |
| 120715   | ♦     | LM10CN      | DIP-8  | Op amp and voltage reference   | 2.49   | 2.25   | 1.95   |
| 1062114  | TI    | TL026CP     | DIP-8  | Diff. high-freq. amp. w/ AGC   | .49    | .39    | .25    |
| 1807439  | ADI   | OP27AZ/883C | DIP-8  | Low noise precision op amp     | 34.95  | 29.95  | 27.95  |
| 275805   | TI    | OPA27GP     | DIP-8  | Ultra-low noise precision      | 2.19   | 2.09   | 1.95   |
| 275784   | TI    | OPA27GU     | SOIC-8 | Ultra-low noise precision      | 2.05   | 1.75   | 1.59   |
| 115300   | ♦     | OP27EP      | DIP-8  | Low noise precision op amp     | 3.95   | 3.49   | 3.25   |
| 115318   | ♦     | OP27GP      | DIP-8  | Low noise prec. (-40° to 80°C) | 2.49   | 1.95   | 1.59   |
| 1944812  | ST    | TL27L2IN    | DIP-8  | Prec. very low pwr CMOS dual   | .59    | .49    | .35    |
| 821676   | TI    | TL051IP     | DIP-8  | Enhanced JFET low offset       | .39    | .35    | .25    |
| 213129   | ♦     | TL052ACP    | DIP-8  | Enh. JFET low offset op amp    | 1.25   | .95    | .85    |
| 33187    | ♦     | TL071CP     | DIP-8  | Low noise JFET op amp.         | .29    | .25    | .22    |
| 213073   | ♦     | TL072ACP    | DIP-8  | Low noise JFET input op amp    | .79    | .69    | .59    |
| 33195    | ♦     | TL072CP*    | DIP-8  | Low noise JFET dual op amp.    | .25    | .22    | .19    |

\*10 pcs. included in Linear cabinet kit, pg 16

Op Amps continued on next page

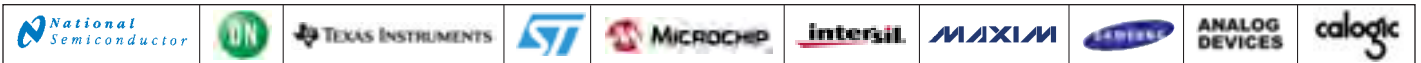


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## Op Amps (Continued)

★ Web Code: WAD

| Part No. | Mfr. | Product No.  | Pkg./Pins | Description   | * Order in multiples of 10 |        |        |
|----------|------|--------------|-----------|---|----------------------------|--------|--------|
|          |      |              |           |   | 1                          | 10     | 100    |
| 33216    | ♦    | TL074CN*     | DIP-14    | Low noise JFET quad op amp. ....                      | \$ .39                     | \$ .35 | \$ .29 |
| 1063935  | TI   | TL074CDE4    | SOIC-14   | Low noise JFET input op amp .....                     | .25                        | .22    | .15    |
| 278328   | TI   | TLC074CN     | DIP-14    | Wide-band, high-output drive .....                    | 1.75                       | 1.49   | 1.15   |
| 213057   | ♦    | TL081ACP     | DIP-8     | JFET input, low offset w/ control .....               | .59                        | .49    | .39    |
| 33232    | ♦    | TL081CP      | DIP-8     | JFET input, offset control .....                      | .35                        | .29    | .25    |
| 214076   | ♦    | TL082ACP     | DIP-8     | JFET input, low offset .....                          | .49                        | .45    | .39    |
| 253198   | ♦    | TL082BCP     | DIP-8     | JFET input op amp., lowest offset .....               | .49                        | .39    | .35    |
| 33241    | ♦    | TL082CP*     | DIP-8     | JFET input dual op amplifier .....                    | .35                        | .29    | .25    |
| 760034   | TI   | TL082CDR     | SOIC-8    | JFET input op amplifier .....                         | .25                        | .22    | .15    |
| 214084   | ♦    | TL084ACN     | DIP-14    | JFET input op amplifier .....                         | .45                        | .39    | .35    |
| 193535   | ♦    | TL084CD      | SOIC-14   | JFET input quad op amplifier .....                    | .39                        | .35    | .29    |
| 33267    | ♦    | TL084CN*     | DIP-14    | JFET input quad op amplifier .....                    | .29                        | .25    | .22    |
| 242000   | ♦    | TLC274ACN    | DIP-14    | Quad precision op amp, low offset .....               | .59                        | .49    | .45    |
| 245665   | ♦    | LM301AH      | TO-5/8    | Operational amplifier .....                           | 3.95                       | 3.49   | 3.25   |
| 212151   | ♦    | LM301AN*     | DIP-8     | Operational amplifier .....                           | .39                        | .35    | .29    |
| 245673   | ♦    | LM308AH      | TO-5/8    | Precision op amplifier .....                          | 4.95                       | 4.49   | 3.95   |
| 23464    | ♦    | LM308N*      | DIP-8     | Precision op amplifier .....                          | 6.95                       | 6.25   | 5.49   |
| 23608    | NSC  | LM318N       | DIP-8     | Precision high speed .....                            | .89                        | .79    | .69    |
| 212169   | ♦    | LM324AN      | DIP-14    | Low power quad, impr. offset .....                    | .35                        | .29    | .25    |
| 86721    | ♦    | LM324D       | SOIC-14   | Low power quad op amplifier .....                     | *                          | .12    | .09    |
| 23683    | ♦    | LM324N**     | DIP-14    | Low power quad op amplifier .....                     | .29                        | .25    | .19    |
| 826671   | TI   | LM324NE4     | DIP-14    | Quad op amplifier .....                               | .29                        | .25    | .22    |
| 838284   | NSC  | LM324N/NOBP  | DIP-14    | Low power quad op amplifier .....                     | .89                        | .79    | .59    |
| 22904    | ♦    | LF347N       | DIP-14    | Quad JFET input (wide band) .....                     | .49                        | .45    | .35    |
| 23915    | ♦    | LM348N       | DIP-14    | Quad 741 op amp (UPC4741C) .....                      | .35                        | .29    | .25    |
| 22912    | ♦    | LF351N       | DIP-8     | BIFET op amplifier .....                              | .39                        | .35    | .29    |
| 22939    | ♦    | LF353N*      | DIP-8     | Dual BIFET (comp w/ TL082CP) .....                    | .35                        | .29    | .25    |
| 901853   | TI   | LF353P       | DIP-8     | JFET input dual, C-temp .....                         | .59                        | .49    | .39    |
| 22971    | NSC  | LF356N*      | DIP-8     | JFET input (wide band) .....                          | .99                        | .79    | .59    |
| 22998    | ♦    | LF357N       | DIP-8     | JFET input (wide band) .....                          | 2.95                       | 2.75   | 2.49   |
| 120862   | ♦    | LM358AN      | DIP-8     | Low power dual (Improved 358N) .....                  | .25                        | .22    | .19    |
| 839332   | NSC  | LM358AN/NOBP | DIP-8     | Low power dual op amplifier .....                     | 1.09                       | .99    | .79    |
| 23966    | ♦    | LM358N*      | DIP-8     | Low power dual op amplifier .....                     | .25                        | .22    | .19    |
| 839367   | NSC  | LM358N/NOBP  | DIP-8     | Low power dual op amplifier .....                     | .99                        | .79    | .59    |
| 1944732  | ST   | LS404CN      | DIP-14    | High performance quad .....                           | .49                        | .39    | .25    |
| 23018    | ♦    | LF411CN*     | DIP-8     | Low offset drift JFET input .....                     | .99                        | .89    | .69    |
| 835500   | NSC  | LF411CN/NOBP | DIP-8     | Low-offset, low-drift JFET input .....                | 1.25                       | .99    | .79    |
| 23026    | ♦    | LF412CN*     | DIP-8     | Low offset drift JFET input dual .....                | 1.75                       | 1.55   | 1.25   |
| 193640   | ♦    | LF412C       | SOIC-8    | Low offset drift JFET input dual .....                | .49                        | .35    | .25    |
| 106681   | ♦    | LF442CN      | DIP-8     | Dual low power JFET input .....                       | 1.25                       | 1.05   | .85    |
| 119992   | ♦    | LF444CN      | DIP-14    | Quad low power JFET input .....                       | 1.75                       | 1.49   | 1.05   |
| 276613   | MAX  | MAX474CSA    | SOIC-8    | Dual 10MHz single supply op amp .....                 | 3.95                       | 2.95   | 2.49   |
| 311239   | MCH  | MCP6S21-I/P  | DIP-8     | 1-ch PGA low-gain sgle-ended rail-to-rail I/O .....   | 1.49                       | 1.15   | .95    |
| 311255   | MCH  | MCP6S22-I/P  | DIP-8     | 2-ch PGA low-gain sgle-ended rail-to-rail I/O .....   | 1.59                       | 1.39   | 1.19   |
| 313314   | ADI  | AD626AR      | SOIC-8    | Low-cost sgle supply diff amplifier .....             | 4.95                       | 4.49   | 3.95   |
| 311221   | MCH  | MCP6S28-I/P  | DIP-8     | 8-ch prog. low-gain sngl-ended rail-to-rail I/O ..... | 2.49                       | 2.45   | 2.25   |
| 143976   | ♦    | LMC660CN     | DIP-14    | CMOS quad operational amplifier .....                 | 1.75                       | 1.45   | .95    |
| 120926   | ♦    | LM675T       | TO-220/5  | Power op amplifier .....                              | 5.49                       | 4.75   | 4.25   |
| 24491    | ♦    | LM733CN      | DIP-14    | Differential amplifier .....                          | .89                        | .79    | .69    |
| 24521    | ♦    | LM741CH      | TO-5/8    | Op amplifier .....                                    | 4.95                       | 4.49   | 3.95   |
| 24539    | ♦    | LM741CN**    | DIP-8     | Op amplifier .....                                    | .29                        | .25    | .22    |
| 24540    | ♦    | LM741CN      | DIP-8     | Op amplifier .....                                    | .25                        | .22    | .19    |
| 840763   | NSC  | LM741CN/NOBP | DIP-8     | General purpose op amplifier .....                    | .79                        | .59    | .45    |
| 830522   | TI   | UA741CP      | DIP-8     | General purpose op amplifier .....                    | .29                        | .25    | .22    |
| 830549   | TI   | UA741CPE4    | DIP-8     | General purpose op amplifier .....                    | .29                        | .25    | .22    |
| 24563    | ♦    | LM747CN      | DIP-14    | Dual 741 op amplifier .....                           | .79                        | .69    | .59    |

\* 10 pcs./ \*\* 20 pcs. in Linear cabinet kit, pg 16 Blue Part No. = Limited Quantity Available

## Op Amps (Continued)

★ Web Code: WAD

| Part No. | Mfr. | Product No. | Pkg./Pins | Description                                    | * Order in multiples of 10 |        |        |
|----------|------|-------------|-----------|--|----------------------------|--------|--------|
|          |      |             |           |  | 1                          | 10     | 100    |
| 239222   | ♦    | LTC1001CN8  | DIP-8     | Precision op amplifier .....                   | \$2.75                     | \$2.49 | \$2.09 |
| 239169   | ♦    | LT1013CP    | DIP-8     | Dual precision op amplifier .....              | 1.15                       | .95    | .79    |
| 239177   | ♦    | LT1014DN    | DIP-14    | Quad precision op amplifier .....              | 3.75                       | 3.25   | 2.59   |
| 23131    | ♦    | LM1458N*    | DIP-8     | Dual op amplifier .....                        | .35                        | .29    | .25    |
| 903509   | TI   | MC1458P     | DIP-8     | Dual general purpose op amplifier .....        | .39                        | .29    | .25    |
| 823525   | TI   | TLC2272AIP  | DIP-8     | Advanced LinCMOS® rail-to-rail .....           | 1.49                       | 1.39   | 1.29   |
| 1085819  | TI   | TLC2272CP   | DIP-8     | Advanced LinCMOS® rail-to-rail .....           | .99                        | .89    | .79    |
| 1944839  | ♦    | TLV2772CP   | DIP-8     | Hi slew rate r-r output, w/ shutdown .....     | .99                        | .89    | .79    |
| 121005   | ♦    | LM2904N     | DIP-8     | Low power dual op amplifier .....              | .25                        | .22    | .15    |
| 12116    | ♦    | CA3080E     | DIP-8     | Op transconductance amplifier .....            | 3.95                       | 3.75   | 3.49   |
| 12183    | ♦    | CA3130E     | DIP-8     | CMOS op amplifier .....                        | 1.19                       | 1.09   | .89    |
| 12204    | ♦    | CA3140E     | DIP-8     | Bi-MOS op amplifier .....                      | .99                        | .89    | .79    |
| 24168    | ♦    | LM3900N     | DIP-14    | Quad amplifier .....                           | .75                        | .65    | .55    |
| 278150   | TI   | THS4032CD   | SOIC-8    | 100MHz low noise hi-speed amp. ....            | 4.95                       | 4.25   | 3.95   |
| 278176   | TI   | THS4082CD   | SOIC-8    | 175MHz LP hi-speed amplifier .....             | 3.95                       | 3.59   | 3.25   |
| 29356    | ♦    | RC4136N     | DIP-14    | Quad op amp. (XR4136) .....                    | .89                        | .79    | .69    |
| 251125   | ♦    | MC4558CN    | DIP-8     | Wide bandwidth dual bipolar .....              | .29                        | .25    | .22    |
| 908246   | TI   | CA4558DR    | SOIC-8    | Dual general purpose op amplifier .....        | *                          | .12    | .09    |
| 27385    | ♦    | NE5532*     | DIP-8     | Dual low noise op amplifier .....              | .29                        | .25    | .22    |
| 252970   | ♦    | NE5532AP    | DIP-8     | Dual lower noise op amplifier .....            | .65                        | .55    | .45    |
| 27406    | ♦    | NE5534      | DIP-8     | Low noise op amplifier .....                   | .65                        | .55    | .45    |
| 302121   | NSC  | LM6132AIM   | SOIC-8    | Dual LP r-r in/out, 10MHz, lower VOS .....     | 2.95                       | 2.05   | 1.75   |
| 302076   | NSC  | LM6134BIN   | DIP-14    | Quad LP r-r in/out, 10MHz .....                | 3.49                       | 2.95   | 2.05   |
| 302068   | NSC  | LM6142AIM   | SOIC-8    | Dual r-r in/out, 17MHz .....                   | 3.95                       | 2.95   | 2.25   |
| 301989   | NSC  | LM6152ACM   | SOIC-8    | Dual r-r in/out, 75MHz GBW .....               | 3.49                       | 2.95   | 2.49   |
| 301874   | NSC  | LM6181IN    | DIP-8     | 100mA, 100MHz current feedback .....           | 2.95                       | 2.49   | 1.95   |
| 301436   | NSC  | LMC6442IM   | SOIC-8    | Dual ppwr r-r output single supply .....       | 1.95                       | 1.75   | 1.25   |
| 301364   | NSC  | LMC6442IN   | DIP-8     | Dual ppwr r-r output single supply .....       | 1.95                       | 1.75   | 1.35   |
| 126906   | NSC  | LMC6462AIN  | DIP-8     | ppwr r-r I/O CMOS op amp., lower VOS .....     | 2.95                       | 2.49   | 1.75   |
| 126893   | NSC  | LMC6482AIN  | DIP-8     | CMOS dual r-r I/O, lower VOS .....             | 2.05                       | 1.55   | 1.29   |
| 301356   | NSC  | LMC6484AIN  | DIP-14    | CMOS quad r-r I/O, lower VOS .....             | 4.25                       | 3.25   | 2.69   |
| 301751   | NSC  | LM7171BIM   | SOIC-8    | Hi speed hi output current volt feedback ..... | 2.95                       | 1.55   | 1.25   |
| 804682   | MAX  | ICL7621DCSA | SOIC-8    | Dual low power op amplifier .....              | 1.95                       | 1.49   | 1.25   |
| 1789816  | ADI  | AD8022ARMZ  | MSOP-8    | Dual hi speed low noise .....                  | 3.95                       | 3.75   | 3.35   |
| 192532   | NSC  | LM13700N    | DIP-16    | Dual op transcon. w/ diodes/buffer .....       | 1.75                       | 1.49   | 1.19   |
| 192533   | NSC  | LM13700N    | DIP-16    | Dual op transcon. w/ diodes/buffer .....       | 1.85                       | 1.59   | 1.29   |
| 1944775  | ON   | MC33174VP   | DIP-14    | Single supply 3V-44V op amplifier .....        | .49                        | .35    | .25    |
| 871586   | ON   | MC33204P    | DIP-14    | Low voltage, rail-to-rail .....                | .79                        | .59    | .35    |
| 251061   | ON   | MC34072P    | DIP-8     | Single supply 3V-44V op amplifier .....        | .79                        | .69    | .59    |

\* 10 pcs. in Linear cabinet kit, pg 16

Blue Part No. = Limited Quantity Available

## Linear Series

★ Web Code: FAD

| Part No. | Mfr. | Product No. | Pkg    | Description                                | 1      | 10     | 100    |
|----------|------|-------------|--------|--|--------|--------|--------|
| 25751    | ♦    | MF10CCN     | DIP-20 | Gen. purpose dual active filter ...        | \$4.49 | \$3.49 | \$2.59 |
| 16301    | ♦    | DS0026CN    | DIP-8  | Dual MOS clk. driver (5MHz) ..             | 5.95   | 5.49   | 4.95   |
| 239281   | ♦    | DG201BDJ    | DIP-16 | Quad analog switch .....                   | 1.29   | 1.19   | 1.09   |
| 1341966  | TI   | L293DNE     | DIP-16 | Quad half-H drivers, I-temp .....          | 2.39   | 2.15   | 1.59   |
| 1342011  | TI   | L293NE      | DIP-16 | Quad half-H drivers, C-temp .....          | 2.39   | 2.15   | 1.59   |
| 1950876  | CAL  | CWB309      | DIP-16 | Quad mono CMOS/DMOS analog sw. ....        | .99    | .89    | .59    |
| 23721    | ♦    | LM331N      | DIP-8  | Prec volt to freq convtr (150ppm/°C) ..... | 2.25   | 1.75   | 1.39   |

Linear Series continued on next page



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\* ADI = Analog Devices | CAL = Calogic | MAX = Maxim Semiconductor | MCH = Microchip | NSC = National Semiconductor | ON = ON Semi | ST = ST Micro | TI = Texas Instruments | ♦ Varies

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# Linear Series & Temperature Sensors



## Linear Series (Continued)

\*Web Code: FAD

| Part No. | *Mfr. | Product No.    | Pkg/Pins | Description                           | * Order in multiples of 10 |        |        |
|----------|-------|----------------|----------|---------------------------------------|----------------------------|--------|--------|
|          |       |                |          |                                       | 1                          | 10     | 100    |
| 245446   | MAX   | MAX301CPE      | DIP-16   | Precision dual hi speed analog switch | \$2.95                     | \$2.25 | \$1.95 |
| 23739    | NSC   | LM334Z         | TO-92/3  | Adjust current source                 | .69                        | .59    | .49    |
| 23771    | NSC   | LM336Z-2.5     | TO-92/3  | Voltage reference (2.5V)              | .39                        | .35    | .29    |
| 297676   | NSC   | LM336BZ-5.0    | TO-92/3  | 5V voltage reference diode            | .95                        | .85    | .75    |
| 120889   | ♦     | LM385BZ-2.5    | TO-92/3  | Volt. ref. diode (2.5V ±1.5%)         | .45                        | .39    | .35    |
| 24117    | ♦     | LM385Z-1.2     | TO-92/3  | Micropwr volt. ref. diode (1.2V)      | .49                        | .39    | .29    |
| 23000    | ♦     | LF398N         | DIP-8    | Sample and hold circuit               | 1.49                       | 1.19   | .89    |
| 309833   | ♦     | DG403DJ        | DIP-16   | Dual SPDT & SPDT analog switch        | 2.95                       | 2.75   | 2.49   |
| 272161   | ♦     | DG407DJ        | DIP-28   | Dual 8-ch multiplexer/demux.          | 5.49                       | 4.95   | 4.49   |
| 256532   | ♦     | DG408DJ        | DIP-16   | 1 of 8 multiplexer/demultiplexer      | 1.95                       | 1.75   | 1.49   |
| 288243   | ADI   | ADG409BN       | DIP-16   | Dual 4-ch multiplexer/demultiplexer   | 3.49                       | 3.25   | 2.95   |
| 243643   | ♦     | DG411DJ        | DIP-16   | Quad SPST (NC) analog sw.             | .99                        | .79    | .69    |
| 256516   | ♦     | DG412DJ        | DIP-16   | Quad SPST (NO) analog sw.             | 1.49                       | 1.25   | .85    |
| 279540   | ♦     | DG419DJ        | DIP-8    | Dual SPST (NO/NC) analog switch       | 1.75                       | 1.55   | 1.45   |
| 33347    | ♦     | TL431CLP       | TO-92/3  | Program precision reference           | *                          | .15    | .12    |
| 1798261  | ADI   | ADG451BRZ      | SOIC-16  | Analog switch                         | 3.95                       | 2.75   | 2.49   |
| 33355    | ♦     | TL494CN        | DIP-16   | Contrl circuit pulse-width-modulated  | .39                        | .29    | .25    |
| 840579   | NSC   | LM555CM/NOPB   | SOIC-8   | Timer                                 | .99                        | .79    | .59    |
| 27422    | ♦     | LM555CN**      | DIP-8    | Timer (MC1455P/NE555V)                | .25                        | .22    | .17    |
| 27423    | ♦     | LM555CN        | DIP-8    | Timer (MC1455P/NE555V)                | .25                        | .22    | .19    |
| 840608   | NSC   | LM555CN/NOPB   | DIP-8    | Timer                                 | 1.25                       | .85    | .65    |
| 126797   | ♦     | LMC555CN*      | DIP-8    | CMOS timer                            | .79                        | .69    | .59    |
| 841571   | NSC   | LMC555CN/NOPB  | DIP-8    | CMOS timer                            | 1.49                       | 1.15   | .85    |
| 890091   | ST    | NE555N         | DIP-8    | Gen. purp. single bipolar timer       | .29                        | .25    | .22    |
| 904085   | TI    | NE555P         | DIP-8    | Precision timer                       | .35                        | .25    | .22    |
| 761272   | TI    | TLC555CP       | DIP-8    | LinCMOS™ timer, C-temp                | .65                        | .55    | .49    |
| 24328    | ♦     | LM556N*        | DIP-14   | Dual 555 timer                        | .29                        | .25    | .22    |
| 24329    | ♦     | LM556N         | DIP-14   | Dual 555 timer                        | .35                        | .29    | .25    |
| 904114   | TI    | NE556N         | DIP-14   | Dual precision timer                  | .49                        | .45    | .39    |
| 27473    | ST    | NE564N         | DIP-16   | High freq. phase locked loop          | 2.75                       | 2.49   | 2.25   |
| 24352    | ♦     | LM565N         | DIP-14   | Phased locked loop                    | 2.95                       | 2.75   | 2.49   |
| 24395    | ♦     | LM567CN        | DIP-8    | Tone decoder                          | .99                        | .89    | .79    |
| 246650   | NSC   | LMC567CN       | DIP-8    | Tone decoder (CMOS)                   | 1.49                       | 1.25   | .95    |
| 27490    | ST    | NE571N         | DIP-16   | Compander, subscriber                 | 4.49                       | 4.25   | 3.95   |
| 288155   | ADI   | AD584KN        | DIP-8    | Prog volt. ref. 11mV tol.             | 8.95                       | 7.95   | 6.95   |
| 918436   | INS   | SA612AD/01     | SOIC-8   | Dbl balanced mixer & oscillator       | 1.95                       | 1.49   | 1.25   |
| 115174   | ADI   | AD620AN        | DIP-14   | Low-cost instrument amp.              | 6.49                       | 5.25   | 4.49   |
| 1798982  | ADI   | ADG623BRMZ     | SOIC-10  | Analog switch                         | 1.95                       | 1.75   | 1.49   |
| 1781312  | ADI   | AD633ANZR      | DIP-8    | Analog multiplier                     | 7.45                       | 6.25   | 5.95   |
| 115182   | ADI   | AD633JN        | DIP-8    | Low-cost analog multiplier            | 6.95                       | 6.25   | 5.35   |
| 316515   | MCH   | TC962CPA       | DIP-8    | High current charge pump DC-DC con.   | 1.95                       | 1.75   | 1.49   |
| 239265   | ♦     | LT1004CZ-2.5   | TO-92    | 2.5V, micropower volt reference       | .39                        | .35    | .25    |
| 1742161  | LTC   | LTC1258CS8-2.5 | MSOP-8   | 1.4A, 500kHz step down switch reg.    | 5.95                       | 5.75   | 5.25   |
| 118578   | ♦     | MC1495L        | DIP-14   | Linear 4 quadrant multiplier          | 9.95                       | 8.95   | 7.95   |
| 23211    | ♦     | LM1496N        | DIP-14   | Balanced mod/demodulator              | .69                        | .59    | .49    |
| 1944821  | ♦     | P1803AC        | TO-220   | Balanced three-chip sidactor          | 1.49                       | 1.25   | .99    |
| 34278    | ♦     | U1N2003A*      | DIP-16   | Hi-volt/curr. darl. transistor array  | .25                        | .22    | .19    |
| 1147178  | TI    | U1N2003AN      | DIP-16   | Hi-volt/curr. darl. transistor array  | .49                        | .45    | .35    |
| 193826   | ♦     | U1N2003AD      | SOIC-16  | Hi-volt/curr. darl. transistor array  | .45                        | .35    | .29    |
| 34294    | ♦     | U1N2004AN      | DIP-16   | Hi-volt/curr. darl. transistor array  | .39                        | .35    | .29    |
| 700630   | TI    | U1N2004AN      | DIP-16   | Hi-volt/curr. darlington trans. array | .49                        | .45    | .35    |
| 34972    | EXR   | XR2206CP       | DIP-16   | Monolithic function generator         | 5.49                       | 4.95   | 4.49   |
| 34999    | ♦     | XR2211         | DIP-14   | FSK demodulator/tone decoder          | 1.95                       | 1.75   | 1.49   |
| 280073   | TI    | TL2426CLP      | TO-92/3  | Rail splitter prec. virtual ground    | 1.39                       | 1.29   | 1.19   |
| 34315    | ♦     | U1N2803A*      | DIP-18   | Hi-volt/curr. darl. transistor array  | .45                        | .39    | .35    |
| 34316    | ♦     | U1N2803A       | DIP-18   | Hi-volt/curr. darl. transistor array  | .55                        | .49    | .45    |
| 700664   | TI    | U1N2803AN      | DIP-18   | Darlington transistor array, I-temp   | 1.15                       | .95    | .85    |

\*10 pcs./ \*\*20 pcs. in Linear kit, right

\*MUX/DEMUXs Available Online — Enter Web Code RAB

\* ADI = Analog Devices | CAL = Calogic | DAL = Dallas | EXR = EXAR Corp | LTC = Linear Tech | MAX = Maxim | MCH = Microchip | NSC = National | NXP = NXP/Philp | ON = ON Semi | ST = ST Micro | TI = Texas Ins | ♦ = Varies

RoHS compliant product

+ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 197.

## Linear Series (Continued)

\*Web Code: FAD

| Part No. | *Mfr. | Product No.   | Pkg.     | Description                         | 1      | 10     | 100    |
|----------|-------|---------------|----------|-------------------------------------|--------|--------|--------|
| 123625   | NSC   | LM2907N-8     | DIP-8    | Frequency to volt converter         | \$1.75 | \$1.35 | \$1.09 |
| 23317    | NSC   | LM2907N       | DIP-14   | Frequency to volt converter         | 1.75   | 1.55   | 1.15   |
| 23350    | NSC   | LM2917N-8     | DIP-8    | Freq. to volt conv. w/ zener        | 1.75   | 1.45   | 1.15   |
| 23341    | NSC   | LM2917N-14    | DIP-14   | Freq. to volt conv. w/ zener        | 1.75   | 1.45   | 1.25   |
| 12079    | ♦     | CA3046N       | DIP-14   | NPN transistor array                | 1.09   | .99    | .89    |
| 12159    | ♦     | CA3086N       | DIP-14   | NPN transistor array                | 1.95   | 1.75   | 1.49   |
| 1797605  | ADI   | ADG3123BRUZ   | TSSOP-20 | 8-channel CMOS logic                | 4.95   | 4.25   | 3.55   |
| 31974    | ♦     | SG3524N       | DIP-16   | Regulating pulse width modulator    | .65    | .55    | .45    |
| 25275    | ♦     | MC4044P       | DIP-14   | Frequency phase detector            | 6.95   | 5.95   | 5.25   |
| 29372    | EXR   | XR4151CP-F    | DIP-8    | Volt to frequency converter         | 1.75   | 1.55   | 1.35   |
| 698509   | ST    | M48Z02-150PC1 | DIP-24   | 5V, 150ns, 16k zeropower™ SRAM      | 7.95   | 7.49   | 6.75   |
| 1950868  | CAL   | CWB5341       | DIP-14   | Dual mono CMOS/DMOS analog sw.      | .99    | .89    | .79    |
| 1944759  | NXP   | SAA6579       | DIP-16   | Radio data system demodulator       | 1.39   | .35    | .25    |
| 312135   | TI    | TPS6735IP     | DIP-8    | Fixed neg 5V 200mA invert DC/DC con | 1.95   | 1.75   | 1.25   |
| 288163   | ADI   | AD7501KN      | DIP-16   | 8 channel analog multiplexer        | 9.95   | 8.95   | 6.95   |
| 51140    | ♦     | 7555IPA       | DIP-8    | CMOS timer                          | .39    | .35    | .29    |
| 51174    | ♦     | 7660CPA       | DIP-8    | CMOS volt convtr (+5 to ±5V)        | .75    | .59    | .49    |
| 316646   | ♦     | ICL7662CPA    | DIP-8    | Volt convtr., 20Vin, 4.5-20V out    | 2.75   | 2.25   | 2.15   |
| 1083476  | TI    | TL7712ACP     | DIP-8    | Supply voltage supervisor           | .49    | .39    | .25    |
| 316531   | MCH   | TC9400COD     | SOIC-14  | Volt freq/freq volt converter       | 5.95   | 4.59   | 3.95   |
| 25021    | ON    | MC14411P      | DIP-24   | Bit rate frequency generator        | 4.95   | 4.49   | 4.25   |
| 25064    | ON    | MC14490P      | DIP-16   | Hex contact bounce eliminator       | 4.25   | 3.95   | 3.49   |
| 118586   | ON    | MC145151P     | DIP-28   | Parallel input PLL freq synthesizer | 5.95   | 5.49   | 4.95   |
| 1054684  | TI    | SN75441ONE    | DIP-16   | Quad half-H drivers                 | 1.95   | 1.75   | 1.55   |

## Linear IC Kit

SAVE \$65



10 each: TL072CP, TL074CN, TL082CP, TL084CN, MAX232CPE, LM301N, LM308N, LM311N, LM337T, LF353N, LF356N, LM358N, LM386N-1, LM386N-3, LM393N, LF411CN, LF412CN, LMC555CN, LM556N, LM723CN, LM1458N, DS1488N, DS1489N, U1N2003A, U1N2803A, NE55532N, 7808T, 78L12, 7815T, 7905T, 7912CT, 7915CT  
20 each: LM317T, LM324N, LM339N, LM741CN, LM555CN, 7805T, 78L05, 7812T

| Part No. | Description                       | Wt. (lbs.) | 1        | 5        |
|----------|-----------------------------------|------------|----------|----------|
| 84988    | 480 pcs. (40 types) analog IC kit | 6.0        | \$189.95 | \$169.95 |
| 130411   | Refill for 84988 (480 pcs.)       | 1.3        | 174.95   | 159.95   |

## Temperature Sensors

\*Web Code: WAN

| Part No. | *Mfr. | Product No. | Pkg/Pins | Description                        | 1      | 10     | 100    |
|----------|-------|-------------|----------|------------------------------------|--------|--------|--------|
| 107094   | NSC   | LM34CZ      | TO-92/3  | Prec temp sensor (-40° to +230°F)  | \$5.95 | \$5.49 | \$5.25 |
| 193480   | NSC   | LM34DM      | SOIC-8   | Prec temp sensor (-55° to 300°F)   | 1.95   | 1.49   | 1.19   |
| 155192   | NSC   | LM34DZ      | TO-92/3  | Prec temp sensor (+32° to +212°F)  | 2.25   | 1.95   | 1.49   |
| 107107   | NSC   | LM35CZ      | TO-92/3  | Prec temp sensor (-40° to 110°C)   | 4.75   | 3.75   | 2.95   |
| 192217   | NSC   | LM35DT      | TO-220/3 | Prec temp sensor (-55° to 150°C)   | 2.49   | 1.95   | 1.55   |
| 155740   | NSC   | LM35DZ      | TO-92/3  | Prec temp sensor (0° to +100°C)    | 1.49   | 1.19   | .89    |
| 301604   | NSC   | LM74CIBP-5  | µSMD-5   | 12-bit + sign digital temp sensor  | 1.95   | 1.75   | 1.25   |
| 301621   | NSC   | LM74CIM-3   | SOIC-8   | 12-bit + sign digital temp sensor  | 1.49   | 1.25   | .95    |
| 282028   | NSC   | LM135H      | TO-46    | Precision temperature sensor       | 6.95   | 5.95   | 5.49   |
| 120820   | ♦     | LM335AZ     | TO-92/3  | Precision temperature sensor       | .79    | .69    | .59    |
| 23755    | ♦     | LM335Z      | TO-92/3  | Volt mode temperature sensor       | .75    | .59    | .55    |
| 241939   | ADI   | AD590JH     | TO-52/3  | Two terminal IC temp transducer    | 6.95   | 6.25   | 5.25   |
| 1780571  | ADI   | AD592ANZ    | TO-92/3  | Two terminal IC temp transducer    | 4.75   | 3.85   | 3.25   |
| 313306   | ADI   | AD594AQ     | DIP-14   | Thermocple amp for iron-constantan | 11.75  | 10.59  | 10.25  |
| 313293   | ADI   | AD595AQ     | DIP-14   | Thermocple amp for chromel-alumel  | 13.95  | 12.95  | 11.95  |
| 302551   | DAL   | DS18S20     | TO-92/3  | High-prec. 1-wire digital thermo   | 3.49   | 2.59   | 1.95   |



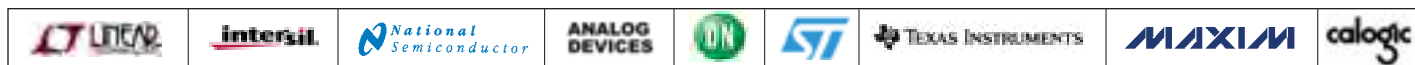
## Hall Effect Sensor

\*Web Code: REB

| Part No. | Mfr.       | Part No. | Pkg. | Description                               | 1      | 10     | 100    |
|----------|------------|----------|------|---|--------|--------|--------|
| 1718743  | A1302EUA-T | SIP-3    |      | Continuous-time ratiometric linear sensor | \$1.29 | \$1.19 | \$1.09 |

\*Pressure Sensors Available Online — Enter Web Code JBV





## Digital Potentiometers

\*Web Code: JBP

| Part No. | Mfr.         | Part No.                                     | Pkg. | Description | 1      | 10     | 100    |
|----------|--------------|--|------|-------------|--------|--------|--------|
| 1778367  | AD5282BRU200 | TSSOP-16 Dual, 256 position, digital pot     |      |             | \$3.95 | \$3.49 | \$3.15 |
| 2044373  | MAX5402EUA   | 8uMAX 256-Tap, uPot, low drift               |      |             | 2.55   | 2.45   | 2.35   |
| 241744   | MCP41010-I/P | DIP-8 10kΩ, 256 steps, SPI digital pot       |      |             | 1.75   | 1.65   | 1.55   |
| 241752   | MCP42010-I/P | DIP-14 10kΩ, 256 steps, 2-ch SPI digital pot |      |             | 2.09   | 1.95   | 1.59   |

## Voltage Regulators

\*Web Code: TAC

| * Order in multiples of 10 |       |                 |           |  |        |        |        |
|----------------------------|-------|-----------------|-----------|--|--------|--------|--------|
| Part No.                   | *Mfr. | Product No.     | Pkg./Pins | Description                                  | 1      | 10     | 100    |
| 23499                      | +     | LM309K          | TO-3/2    | 5V, 1A (0°C to +125°C)                       | \$5.95 | \$5.49 | \$4.95 |
| 192268                     | NSC   | LM317AT         | TO-220/3  | 3-terminal adj. (1.2V-37V)                   | 1.49   | 1.25   | .89    |
| 837898                     | NSC   | LM317AT/NOPB    | TO-220/3  | 3-term. 1.5A output adj pos, I-temp          | 1.55   | 1.35   | .95    |
| 898359                     | NSC   | LM317EMP        | SOT-223/4 | 3-term 1A output adj pos C-temp              | .69    | .55    | .45    |
| 192276                     | NSC   | LM317HVT        | TO-220/3  | 3-terminal adj. (1.2V-57V)                   | 2.25   | 1.75   | 1.35   |
| 837927                     | NSC   | LM317HVT/NOPB   | TO-220/3  | 3-term. 1A output adj pos, C-temp            | 2.95   | 2.49   | 1.95   |
| 23544                      | +     | LM317K          | TO-3/2    | 1.5A adj. positive (1.2V-37V)                | 2.65   | 2.39   | 2.05   |
| 23552                      | +     | LM317LZ         | TO-92/3   | 100mA adj. positive (1.2V-37V)               | .29    | .25    | .22    |
| 898543                     | NSC   | LM317LZ/NOPB    | TO-92/3   | Adjustable, 100mA positive                   | .69    | .59    | .49    |
| 23579                      | +     | LM317T*         | TO-220/3  | 1.5A adj. positive (1.2V-37V)                | .29    | .25    | .22    |
| 23580                      | +     | LM317T          | TO-220/3  | 1.5A adj. positive (1.2V-37V)                | .35    | .29    | .25    |
| 898800                     | NSC   | LM317TT/NOPB    | TO-220/3  | Adjustable, 1.5A positive                    | 1.25   | 1.05   | .85    |
| 23667                      | +     | LM323K          | TO-3/2    | 5V, 3A positive                              | 3.95   | 3.75   | 3.49   |
| 23798                      | +     | LM337K          | TO-3/2    | 1.5A/3 term adj. neg. reg.                   | 3.49   | 3.25   | 2.75   |
| 296841                     | +     | LM337LZ         | TO-92/3   | 3-terminal adj. neg.                         | .79    | .59    | .45    |
| 23819                      | +     | LM337T*         | TO-220/3  | 1.5A/adj. neg. (-1.2V-37V)                   | .45    | .35    | .29    |
| 899520                     | NSC   | LM337TT/NOPB    | TO-220/3  | 1.5A adjustable negative                     | 1.95   | 1.75   | 1.49   |
| 23835                      | +     | LM338K          | TO-3/2    | 5A adj. positive (1.2V-32V)                  | 5.95   | 5.49   | 4.95   |
| 192284                     | NSC   | LM338T          | TO-220/3  | 5A adjustable                                | 1.95   | 1.49   | 1.25   |
| 838621                     | NSC   | LM338T/NOPB     | TO-220/3  | 5A adjustable positive                       | 2.25   | 1.75   | 1.35   |
| 900017                     | NSC   | LM340T-5.0      | TO-220/3  | 5V, 1A positive, I-temp                      | 1.25   | 1.05   | .85    |
| 23931                      | +     | LM350K          | TO-3/2    | 3A/3 term. adj. pos. (1.2V-33V)              | 5.49   | 4.95   | 3.95   |
| 23940                      | +     | LM350T          | TO-220/3  | 3A adjustable power                          | .69    | .59    | .49    |
| 276517                     | MAX   | MAX637ACSA      | SOIC-8    | Presel/adj output CMOS invert switch reg     | 4.95   | 4.49   | 2.95   |
| 24467                      | +     | LM723CN*        | DIP-14    | Voltage regulator (2V-37V)                   | .35    | .29    | .25    |
| 301719                     | +     | LM723H          | TO-5/10   | 2V - 37V, 150mA adj.                         | 4.49   | 3.95   | 3.75   |
| 298071                     | MAX   | MAX755CSA       | SOIC-8    | -5V/adj. output. invert current mode PWM reg | 2.95   | 2.49   | 1.49   |
| 107166                     | NSC   | LM2936Z-5.0     | TO-92/3   | Ultra-low quiescent current 5V               | 2.25   | 1.75   | 1.39   |
| 51246                      | +     | 7805K           | TO-3/2    | 5V, 1A positive (LM340K-5)                   | 2.49   | 2.25   | 1.95   |
| 51262                      | +     | 7805T**         | TO-220/3  | 5V, 1A positive (LM340T-5)                   | .29    | .25    | .19    |
| 51263                      | +     | 7805T           | TO-220/3  | 5V, 1A positive (LM340T-5)                   | .29    | .25    | .22    |
| 924570                     | ST    | L7805ACV        | TO-220/3  | 5V, 1.5A positive                            | .29    | .25    | .22    |
| 924633                     | ST    | L7805CV         | TO-220/3  | 5V, 1.5A positive                            | .45    | .35    | .29    |
| 902071                     | NSC   | LM7805CT        | TO-220/3  | 5V, 1A positive                              | 1.09   | .99    | .89    |
| 786138                     | FSC   | LM7805CT        | TO-220/3  | 5V, 1A positive, I-temp                      | .35    | .29    | .25    |
| 876221                     | ON    | MC7805CT        | TO-220/3  | 5V, 1A positive, C-temp                      | .45    | .39    | .35    |
| 876248                     | ON    | MC7805CTG       | TO-220/3  | 5V, 1A positive, C-temp                      | .35    | .29    | .25    |
| 51182                      | +     | 78L05**         | TO-92/3   | 5V, 100mA positive                           | .25    | .22    | .17    |
| 51183                      | +     | 78L05           | TO-92/3   | 5V, 100mA positive                           | .25    | .22    | .19    |
| 889428                     | ST    | L78L05ACZ       | TO-92/3   | 5V, 100mA positive                           | .35    | .25    | .19    |
| 973831                     | FSC   | LM78L05ACZ      | TO-92/3   | 5V, 100mA positive, I-temp                   | *      | .19    | .15    |
| 1303290                    | NSC   | LM78L05ACZ/NOPB | TO-92/3   | 3-terminal 5V, 100mA positive                | .69    | .55    | .45    |
| 192233                     | +     | 78M05           | TO-220/3  | 5V, 500mA positive                           | .25    | .22    | .19    |
| 51297                      | +     | 7806T           | TO-220/3  | 6V, 1A positive (LM340T-6)                   | .35    | .29    | .25    |
| 51300                      | +     | 7808T*          | TO-220/3  | 8V, 1A positive (LM340T-8)                   | .35    | .29    | .25    |
| 876352                     | ON    | MC7809CT        | TO-220/3  | 9V, 1A pos., C-temp                          | .29    | .25    | .22    |
| 192225                     | +     | 78L09ACZ        | TO-92/3   | 9V, 100mA positive                           | .25    | .22    | .17    |

\*10 pcs./ \*\*20 pcs. included in Linear kit, pg 16

## Voltage Regulators (Continued)

\*Web Code: TAC

| * Order in multiples of 10 |       |               |           |                                  |        |        |        |
|----------------------------|-------|---------------|-----------|----------------------------------|--------|--------|--------|
| Part No.                   | *Mfr. | Product No.   | Pkg./Pins | Description                      | 1      | 10     | 100    |
| 51318                      | +     | 7812K         | TO-3/2    | 12V, 1A pos. (LM340K-12)         | \$2.15 | \$1.95 | \$1.75 |
| 51334                      | +     | 7812T**       | TO-220/3  | 12V, 1A pos. (LM340T-12)         | .25    | .22    | .19    |
| 51335                      | +     | 7812T         | TO-220/3  | 12V, 1A pos. (LM340T-12)         | .35    | .29    | .25    |
| 889305                     | ST    | L7812CV       | TO-220/3  | 12V, 1.5A positive               | .29    | .25    | .22    |
| 902127                     | NSC   | LM7812CT      | TO-220/3  | 12V, 1A positive                 | 1.05   | .95    | .85    |
| 51203                      | +     | 78L12*        | TO-92/3   | 12V, 100mA positive              | .25    | .22    | .17    |
| 902389                     | NSC   | LM78L12ACZ    | TO-92/3   | 3-terminal 12V positive          | .39    | .35    | .29    |
| 192241                     | +     | 78M12         | TO-220/3  | 12V, 500mA positive              | .25    | .22    | .17    |
| 51369                      | +     | 7815K         | TO-3/2    | 15V, 1A pos. (LM340K-15)         | 2.49   | 2.25   | 1.95   |
| 51377                      | +     | 7815T*        | TO-220/3  | 15V, 1A pos. (LM340T-15)         | .29    | .25    | .22    |
| 902151                     | NSC   | LM7815CT      | TO-220/3  | 3-terminal 15V                   | 1.29   | 1.19   | 1.09   |
| 51414                      | +     | 7824T         | TO-220/3  | 24V, 1A positive (LM340T-24)     | .25    | .22    | .19    |
| 1131504                    | TI    | UA78M33CKCSE3 | TO-220/3  | 3.3V, 500mA, fixed po. regulator | .69    | .59    | .45    |
| 51457                      | +     | 7905T*        | TO-220/3  | -5V, 1A neg. (LM320T-5)          | .29    | .25    | .22    |
| 51422                      | +     | 79L05         | TO-92/3   | -5V, 100mA negative              | .25    | .22    | .17    |
| 51481                      | +     | 7912T*        | TO-220/3  | -12V, 1A neg. (LM320T-12)        | .29    | .25    | .22    |
| 51431                      | +     | 79L12         | TO-92/3   | -12V, 100mA neg., volt reg       | *      | .12    | .09    |
| 51502                      | +     | 7915T*        | TO-220/3  | -15V, 1A neg. (LM320T-15)        | .29    | .25    | .22    |
| 316945                     | MOT   | MC34063AP1    | DIP-8     | 1.5 step-up/down invert sw reg   | .49    | .39    | .35    |
| 260259                     | NTE   | NTE960        | TO-220    | +5V, 1A, fixed                   | 1.75   | 1.67   | 1.57   |

\*10 pcs./ \*\*20 pcs. included in Linear kit, pg 16

## Simple Switcher Voltage Regulators

\*Web Code: VAX

| Part No. | *Mfr. | Product No.      | Pkg./Pins | Description                          | 1      | 10     |
|----------|-------|------------------|-----------|--------------------------------------|--------|--------|
| 1742524  | LTC   | LT1959CS8#PBF    | SOIC-8    | 4.5A, 500kHz step-down, C-temp       | \$7.95 | \$6.95 |
| 156566   | +     | LM2574N-5        | DIP-8     | 5V step-down regulator               | 1.49   | 1.25   |
| 279603   | NSC   | LM2575HVT-12     | TO-220    | 1A step down V-reg, high Vin range   | 1.95   | 1.75   |
| 279638   | NSC   | LM2575HVT-5.0    | TO-220/5  | 1A step-down V-reg, hi Vin range     | 3.49   | 2.95   |
| 894817   | NSC   | LM2576T-5.0/LB03 | TO-220/5  | Simple switcher 3A step down, I-temp | 1.95   | 1.25   |
| 192381   | NSC   | LM2576HVT-5.0    | TO-220/5  | 3A step down V-reg, high Vin range   | 5.49   | 4.49   |
| 192372   | NSC   | LM2576HVT-ADJ    | TO-220/5  | 3A step-down V-reg, high Vin range   | 4.95   | 4.49   |
| 245569   | +     | LM2576T-5.0      | TO-220/5  | 3A step-down voltage regulator       | 2.25   | 1.75   |
| 120977   | +     | LM2576T-ADJ      | TO-220/5  | 3A step-down voltage regulator       | 1.45   | 1.05   |
| 300898   | NSC   | LM2586S-12       | TO-263/7  | 3A flyback regulator with shutdown   | 4.95   | 4.25   |
| 300871   | NSC   | LM2586S-5.0      | TO-263/7  | 3A flyback regulator with shutdown   | 4.95   | 4.25   |
| 300821   | NSC   | LM2586S-ADJ      | TO-263/7  | 3A flyback regulator with shutdown   | 4.95   | 3.95   |
| 300919   | NSC   | LM2586T-ADJ      | TO-220    | 3A flyback regulator with shutdown   | 5.49   | 4.95   |
| 300847   | NSC   | LM2588T-ADJ      | TO-220    | 5A flyback regulator with shutdown   | 6.95   | 5.75   |
| 300732   | NSC   | LM2592HVT-3.3    | TO-220    | 2A step down voltage regulator       | 4.95   | 4.49   |
| 300695   | NSC   | LM2594N-3.3      | DIP-8     | 0.5A step down voltage regulator     | 2.95   | 2.49   |
| 310391   | NSC   | LM2596S-5.0      | TO-263/5  | 3A step down voltage regulator       | 2.95   | 2.25   |
| 300265   | NSC   | LM2595S-ADJ      | TO-263/5  | 1A step down voltage regulator       | 2.95   | 2.25   |
| 290642   | NSC   | LM2596T-5.0      | TO-220/7  | 3A step down voltage regulator       | 2.95   | 2.49   |
| 290394   | NSC   | LM2599S-ADJ      | TO-263/7  | 3A step down voltage regulator       | 4.49   | 3.75   |
| 312397   | NSC   | LM2636MTC        | TSSOP-20  | 5-bit prog. synchronous buck reg     | 2.49   | 2.05   |
| 290749   | NSC   | LM2651MTC-3.3    | TSSOP-16  | 1.5A high eff. synch switching reg   | 2.95   | 2.25   |
| 312389   | NSC   | LM2653MTC-ADJ    | TSSOP-16  | 1.5A high eff. synch switching reg   | 2.95   | 2.49   |
| 290888   | NSC   | LM2674M-ADJ      | SOIC-8    | Adj voltage high eff. switcher       | 2.95   | 2.75   |
| 291012   | NSC   | LM2675N-ADJ      | DIP-8     | 1A step down voltage reg power conv  | 2.95   | 2.25   |

☞ Blue Part No. = Limited Quantity Available

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# Voltage Regulators & IC Sockets

3 LEVELS OF SAVINGS  
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## Low Drop-Out Voltage Regulators

\*Web Code: MBT

| Part No. | *Mfr. | Product No.       | Pkg./Pins | Description                                | 1      | 10     | 100    |
|----------|-------|-------------------|-----------|--|--------|--------|--------|
| 299743   | NSC   | LM1084IT-ADJ      | TO-220/3  | 5A low dropout adj. pos.                   | \$2.49 | \$1.95 | \$1.59 |
| 299735   | NSC   | LM1084IT-3.3      | TO-220/3  | 5A low dropout 3.3V pos.                   | 2.49   | 1.95   | 1.59   |
| 2100523  | +     | AMS1085CD         | TO-252    | 3A low dropout adj. pos.                   | .89    | .79    | .59    |
| 282757   | +     | LT1085CT          | TO-220/3  | 3A low dropout adj./fixed pos.             | 1.25   | .95    | .75    |
| 192305   | +     | LM1086CT-3.3      | TO-220/3  | 1.5A low dropout pos. (3.3V)               | 1.15   | .85    | .65    |
| 192313   | +     | LM1086CT-5.0      | TO-220/3  | 1.5A low dropout pos. (5V)                 | 1.75   | 1.49   | 1.25   |
| 251782   | NSC   | LM1117MPX-ADJ     | SOT-223/3 | 800mA low dropout linear                   | .89    | .69    | .59    |
| 242114   | +     | LM1117T-3.3       | TO-220/3  | 800mA, 3.3V, LDO                           | .89    | .79    | .69    |
| 242115   | NSC   | LM1117T-3.3/NOPB  | TO-220/3  | 800mA, 3.3V, LDO                           | 1.45   | 1.19   | .85    |
| 897188   | NSC   | LM2937ET-3.3      | TO-220/3  | 500mA, 3.3V LDO, I-temp                    | 1.75   | 1.45   | 1.09   |
| 297810   | NSC   | LM2937ET-5.0      | TO-220/3  | 500mA, 5V LDO                              | 1.75   | 1.45   | .95    |
| 107182   | +     | LM2940CT-5        | TO-220/3  | 5V LDO reg. (max. 45Vin)                   | 1.35   | 1.05   | .75    |
| 897381   | NSC   | LM2940CT-5.0/NOPB | TO-220/3  | 1A, 5V LDO positive                        | 1.55   | 1.25   | .95    |
| 192495   | NSC   | LM2940CT-12       | TO-220/3  | 12V LDO reg. (max. 45Vin)                  | 1.45   | 1.15   | .85    |
| 837505   | NSC   | LM2940T-5.0/NOPB  | TO-220/3  | 1A, 5V LDO, I-temp                         | 1.45   | 1.15   | .85    |
| 121064   | +     | LM2941CT          | TO-220/5  | 1A LDO adjustable (45Vin)                  | 1.65   | 1.39   | 1.15   |
| 1944880  | +     | LP2950ACN         | TO-92/3   | 100mA 5V LDO reg.                          | .29    | .25    | .19    |
| 121101   | +     | LP2950ACZ-5.0     | TO-92/3   | Low power LDO 5V low % reg.                | .69    | .59    | .49    |
| 266757   | +     | LP2950CZ-5.0      | TO-92/3   | 100mA low pwr. LDO                         | .69    | .59    | .49    |
| 121110   | +     | LP2951ACP         | DIP-8     | Adjustable $\mu$ power volt-reg.           | .49    | .39    | .25    |
| 1315492  | ON    | LP2951CN-3.0      | DIP-8     | 3V, 100mA LP LDO (I-temp)                  | .39    | .29    | .25    |
| 192524   | +     | LM3940IT-3.3      | TO-220/3  | 1A LDO for 5V to 3.3V                      | 1.75   | 1.45   | 1.05   |
| 1326133  | NSC   | LP2985IM5.0/NOPB  | SOP-5     | 150mA, 5V $\mu$ power low noise ultra reg. | .49    | .39    | .35    |
| 1119791  | TI    | TPS75701KTTT      | TO-263    | Fast transient response 3A, I-temp         | 4.49   | 4.25   | 3.75   |
| 700496   | TI    | TPS78625KTTT      | TO-263    | Ultra low noise, hi-PSRR 1.5A              | 2.95   | 2.25   | 1.95   |

Blue Part No. = Limited Quantity Available

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## AMP DIP Low-Profile IC Sockets

\*Web Code: QAF

### Economy Ladder Style

- Housing: glass filled thermoplastic, black
- Dual wipe
- Contacts: phosphor bronze tin plating
- A: 15 $\mu$  gold
- B: 60 $\mu$  tin



683104



526205



683198

Order in multiples of 10

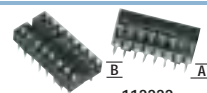
| Part No. | *Mfr.      | Part No. | Pos. | Plating | Width (ins.) | 10     | 100    | 500    |
|----------|------------|----------|------|---------|--------------|--------|--------|--------|
| 683091   | 1-390261-1 | 6        | B    | 0.3     | .13          | \$1.10 | \$1.00 | \$0.90 |
| 526299   | 390261-2   | 8        | B    | 0.3     | .12          | .09    | .09    | .07    |
| 683104   | 1-390261-2 | 8        | B    | 0.3     | .13          | .10    | .10    | .08    |
| 837679   | 2-640463-4 | 8        | A    | 0.3     | .69          | .59    | .49    | .49    |
| 526192   | 390261-3   | 14       | B    | 0.3     | .12          | .09    | .09    | .08    |
| 683112   | 1-390261-3 | 14       | B    | 0.3     | .13          | .10    | .10    | .09    |
| 526205   | 390261-4   | 16       | B    | 0.3     | .17          | .11    | .11    | .09    |
| 683121   | 1-390261-4 | 16       | B    | 0.3     | .19          | .12    | .10    | .10    |
| 524584   | 2-640358-4 | 16       | A    | 0.3     | .89          | .69    | .59    | .59    |
| 526213   | 390261-5   | 18       | B    | 0.3     | .15          | .14    | .14    | .10    |
| 683139   | 1-390261-5 | 18       | B    | 0.3     | .16          | .15    | .15    | .11    |
| 526221   | 390261-6   | 20       | B    | 0.3     | .16          | .15    | .15    | .13    |
| 683147   | 1-390261-6 | 20       | B    | 0.3     | .17          | .16    | .16    | .14    |
| 683163   | 1-390261-8 | 24       | B    | 0.3     | .22          | .20    | .17    | .17    |
| 683198   | 1-390262-1 | 24       | B    | 0.6     | .25          | .21    | .19    | .19    |
| 526248   | 390261-9   | 28       | B    | 0.3     | .24          | .22    | .20    | .20    |
| 683171   | 1-390261-9 | 28       | B    | 0.3     | .25          | .23    | .21    | .21    |
| 526256   | 390262-2   | 28       | B    | 0.6     | .22          | .19    | .17    | .17    |
| 683201   | 1-390262-2 | 28       | B    | 0.6     | .24          | .22    | .19    | .19    |
| 526272   | 390262-5   | 40       | B    | 0.6     | .32          | .29    | .25    | .25    |
| 683227   | 1-390262-5 | 40       | B    | 0.6     | .35          | .33    | .27    | .27    |

\* CA = Circuit Assembly | JVP = Jameco ValuePro | NSC = National Semiconductor | ON = ON Semi | TI = Texas Instruments | + Manufacturer Varies

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 197.

## Dual Wipe Solder Tail Low-Profile IC Sockets

\*Web Code: WAP



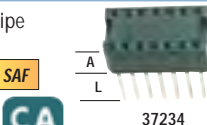
- Contact current: 1A
- Contact resistance: less than 5m $\Omega$
- Dielectric withstanding voltage: 300V
- Insulation resistance: greater than 1000M $\Omega$
- Thru-hole lead length: .140" (A) • Body height: .188" (B)

| Part No. | *Mfr. | Product No. | Pins | Width (ins.) | 10     | 100    | 1000   |
|----------|-------|-------------|------|--------------|--------|--------|--------|
| 112193   | JVP   | 6LPD        | 6    | 0.3          | \$1.13 | \$1.10 | \$0.08 |
| 51571    | +     | 8LPD        | 8    | 0.3          | .12    | .09    | .07    |
| 112206   | JVP   | 8LPD        | 8    | 0.3          | .13    | .10    | .08    |
| 37162    | +     | 14LP*       | 14   | 0.3          | .12    | .09    | .08    |
| 689936   | +     | ED14DT      | 14   | 0.3          | .12    | .09    | .08    |
| 112214   | JVP   | 14LPD       | 14   | 0.3          | .13    | .10    | .09    |
| 37372    | +     | 16LP*       | 16   | 0.3          | .10    | .08    | .06    |
| 37373    | JVP   | 16LPD       | 16   | 0.3          | .17    | .11    | .09    |
| 112222   | JVP   | 16LPD       | 16   | 0.3          | .19    | .12    | .10    |
| 38113    | +     | 18LP*       | 18   | 0.3          | .14    | .12    | .09    |
| 689952   | +     | ED18DT      | 18   | 0.3          | .14    | .12    | .09    |
| 112231   | JVP   | 18LPD       | 18   | 0.3          | .16    | .15    | .11    |
| 38607    | +     | 20LP*       | 20   | 0.3          | .12    | .10    | .08    |
| 112248   | +     | 20LPD       | 20   | 0.3          | .16    | .15    | .13    |
| 38608    | JVP   | 20LPD       | 20   | 0.3          | .17    | .16    | .14    |
| 112256   | +     | 22SLPD      | 22   | 0.3          | .17    | .16    | .14    |
| 39132    | JVP   | 22LPD       | 22   | 0.4          | .17    | .16    | .14    |
| 39378    | +     | 24SLPD      | 24   | 0.3          | .21    | .19    | .16    |
| 112282   | JVP   | 24SLPD      | 24   | 0.3          | .22    | .20    | .17    |
| 112264   | +     | 24LPD       | 24   | 0.6          | .23    | .19    | .17    |
| 112266   | JVP   | 24LPD       | 24   | 0.6          | .25    | .21    | .19    |
| 689961   | +     | ED28DT      | 28   | 0.3          | .24    | .22    | .20    |
| 112299   | +     | 28SLPD      | 28   | 0.3          | .24    | .22    | .20    |
| 112300   | JVP   | 28SLPD      | 28   | 0.3          | .25    | .19    | .15    |
| 40300    | +     | 28LP*       | 28   | 0.6          | .17    | .13    | .11    |
| 112272   | +     | 28LPD       | 28   | 0.6          | .22    | .19    | .17    |
| 40301    | JVP   | 28LPD       | 28   | 0.6          | .24    | .22    | .19    |
| 137621   | JVP   | 32SLPD      | 32   | 0.3          | .29    | .25    | .22    |
| 689979   | +     | ED32DT      | 32   | 0.6          | .27    | .23    | .19    |
| 112301   | JVP   | 32LPD       | 32   | 0.6          | .29    | .25    | .22    |
| 41110    | +     | 40LP*       | 40   | 0.6          | .23    | .17    | .13    |
| 41111    | +     | 40LPD       | 40   | 0.6          | .32    | .29    | .25    |
| 112311   | JVP   | 40LPD       | 40   | 0.6          | .35    | .33    | .27    |
| 137622   | +     | 42LPD       | 42   | 0.6          | .35    | .33    | .27    |
| 112326   | JVP   | 64LDP       | 64   | 0.9          | .45    | .39    | .35    |

\* Single wipe

## 2 & 3 Level Wire Wrap IC Sockets

- Contact plating/leads: gold (WW) or tin (TWW); dual wipe
- Contact current: 1A • Contact resistance: <5m $\Omega$
- Sleeve material: brass
- Dielectric withstanding voltage: 300V
- Material: beryllium copper or phosphor bronze
- Insulation resistance: greater than 1000M $\Omega$
- Insulator: glass-filled polyester or glass-filled polyphenylene sulfide
- Thru-hole lead length: .438" (L2); .638" (L3) • Body height: .300" (A)



| Part No. | *Mfr. | Product No. | Pins | Width (ins.) | 1      | 10     | 100    |
|----------|-------|-------------|------|--------------|--------|--------|--------|
| 37218    | CA    | 14TWW2      | 14   | 0.3          | \$2.25 | \$1.95 | \$1.75 |
| 37234    | CA    | 14WW2       | 14   | 0.3          | 3.25   | 2.95   | 2.75   |
| 196841   | +     | 14TWW3      | 14   | 0.3          | 1.95   | 1.75   | 1.25   |
| 37437    | CA    | 16TWW2      | 16   | 0.3          | 2.75   | 2.49   | 2.25   |
| 37480    | CA    | 16WW2       | 16   | 0.3          | 3.49   | 3.25   | 2.95   |
| 75380    | CA    | 20TWW2      | 20   | 0.3          | 3.49   | 3.25   | 2.95   |
| 38675    | CA    | 20WW2       | 20   | 0.3          | 4.25   | 3.95   | 3.49   |
| 75416    | CA    | 24TWW2      | 24   | 0.6          | 3.49   | 3.25   | 2.95   |
| 39395    | CA    | 24WW2       | 24   | 0.3          | 2.95   | 2.65   | 2.39   |
| 40353    | CA    | 28WW2       | 28   | 0.6          | 5.95   | 5.39   | 4.75   |
| 41180    | CA    | 40TWW2      | 40   | 0.6          | 6.95   | 5.95   | 4.95   |

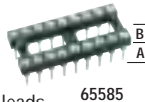




## Machine Tooled Solder Tail Low-Profile IC Sockets

- Contact plating: gold
- Contact resistance: less than 5mΩ
- Dielectric withstanding voltage: 300V<sub>RMS</sub>
- Insulation resistance: greater than 1000MΩ
- Material: beryllium copper or phosphor bronze
- Thru-hole lead length: .177" (A)
- Contact current: 3A
- Tin-plated leads
- Body height: .117" (B)

\*Web Code: GBA



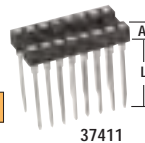
| Part No. | *Mfr. | Product No. | Pins | Width (in.) | 1    | 10   | 100  |
|----------|-------|-------------|------|-------------|------|------|------|
| 167004   | JVP   | 6MLPT       | 6    | 0.3         | .39  | .29  | .19  |
| 51626    | JVP   | 8MLP        | 8    | 0.3         | .49  | .45  | .29  |
| 37197    | JVP   | 14MLP       | 14   | 0.3         | .65  | .55  | .39  |
| 37402    | JVP   | 16MLP       | 16   | 0.3         | .75  | .59  | .45  |
| 65585    | JVP   | 18MLP       | 18   | 0.3         | .89  | .75  | .55  |
| 38623    | JVP   | 20MLP       | 20   | 0.3         | .85  | .69  | .49  |
| 192209   | ♦     | 22SMLP      | 22   | 0.4         | 1.25 | 1.09 | .89  |
| 39386    | ♦     | 24SMLP      | 24   | 0.3         | .95  | .79  | .59  |
| 39351    | JVP   | 24MLP       | 24   | 0.6         | 1.09 | .89  | .65  |
| 652359   | ♦     | 24MLP-GOLD  | 24   | 0.6         | 1.09 | .89  | .65  |
| 114412   | JVP   | 28SMLP      | 28   | 0.3         | 1.09 | .89  | .65  |
| 40328    | ♦     | 28MLP+      | 28   | 0.6         | 1.19 | .95  | .69  |
| 223002   | ♦     | 324SMLP     | 32   | 0.4         | 1.25 | .95  | .79  |
| 105381   | JVP   | 32MLP       | 32   | 0.6         | 1.35 | 1.09 | .89  |
| 662629   | ♦     | 40MLP       | 40   | 0.6         | 1.35 | 1.09 | .89  |
| 41136    | JVP   | 40MLP       | 40   | 0.6         | 1.69 | 1.39 | .95  |
| 42059    | ♦     | 48MLP       | 48   | 0.6         | 1.89 | 1.59 | 1.29 |
| 200707   | ♦     | 64MLP       | 64   | 0.9         | 2.95 | 2.49 | 1.95 |

## 3 Level Machine Tooled Wire Wrap IC Sockets

- Contact plating: gold
- Contact resis.: <5mΩ
- Tin-plated leads
- Material: beryllium copper or phosphor bronze
- Dielectric withstanding voltage: 300V<sub>RMS</sub>
- Insulation resistance: greater than 1000MΩ
- Body height: .115" (A)
- Thru-hole lead length: .586" (L)
- Insulator: glass-filled polyester or glass-filled polyphenylene sulfide
- Sleeve material: brass

JAMECO  
EXCLUSIVE

\*Web Code: FAL



| Part No. | Cross Ref. No. | Pins | Width (in.) | 1      | 10     | 100    |
|----------|----------------|------|-------------|--------|--------|--------|
| 94474    | 8MSWW3         | 8    | 0.3         | \$1.49 | \$1.35 | \$1.19 |
| 62051    | 14MSWW3        | 14   | 0.3         | 1.75   | 1.55   | 1.39   |
| 37411    | 16MSWW3        | 16   | 0.3         | 2.25   | 1.95   | 1.75   |
| 94482    | 18MSWW3        | 18   | 0.3         | 2.25   | 1.95   | 1.75   |
| 38632    | 20MSWW3        | 20   | 0.3         | 2.49   | 2.25   | 1.95   |
| 185324   | 22MSWW3        | 22   | 0.3         | 2.49   | 2.25   | 1.95   |
| 105372   | 24MSWW3        | 24   | 0.3         | 2.75   | 2.49   | 2.25   |
| 313656   | 24MSWW3        | 24   | 0.6         | 2.75   | 2.49   | 2.25   |
| 94491    | 24MSWW3        | 24   | 0.6         | 2.95   | 2.75   | 2.49   |
| 200716   | 283MSWW3       | 28   | 0.3         | 3.25   | 2.95   | 2.75   |
| 40337    | 28MSWW3        | 28   | 0.6         | 3.25   | 2.95   | 2.75   |
| 117058   | 32MSWW3        | 32   | 0.6         | 3.49   | 3.19   | 2.79   |
| 94503    | 40MSWW3        | 40   | 0.6         | 3.95   | 3.55   | 3.19   |
| 200723   | 48MSWW3        | 48   | 0.6         | 3.95   | 3.55   | 3.19   |

## Wire Wrap IC Socket I.D. Markers

\*Web Code: YAG

- Material: plastic
- Can easily write location, part number or function
- Quick identification of pin numbers
- Slips onto socket before wrapping

JVP



| Part No. | Mfr. Part No. | Pins | Width (in.) | 1    | 10  | 100 |
|----------|---------------|------|-------------|------|-----|-----|
| 51561    | ID-8-100      | 8    | 0.3         | .59  | .49 | .39 |
| 37145    | ID-14-100     | 14   | 0.3         | .69  | .59 | .45 |
| 38586    | ID-20-50      | 20   | 0.3         | .95  | .75 | .49 |
| 40299    | ID-28-25      | 28   | 0.6         | 1.09 | .89 | .55 |

\* JVP = Jameco ValuePro | OST = On Shore Technology | ♦ Manufacturer Varies

\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

## PLCC Thru-Hole Sockets

\*Web Code: YAH

- Solder tail allows through-hole board patterns in .100" grid
- Thru-hole lead length: .125"
- Accepts JEDEC type "A" plastic lead chip (0.05" centers)

71969



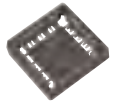
| Part No. | Cross Ref. No. | Pins | Body Height (in.) | 1     | 10    | 100   |
|----------|----------------|------|-------------------|-------|-------|-------|
| 71263    | G1P428         | 28   | .375              | \$.65 | \$.55 | \$.49 |
| 71811    | G1P32          | 32   | .375              | .69   | .59   | .55   |
| 71618    | G1P444         | 44   | .375              | .75   | .65   | .59   |
| 72442    | G1P452         | 52   | .375              | .85   | .75   | .69   |
| 71969    | G1P468         | 68   | .375              | .89   | .79   | .75   |
| 71977    | G1P484         | 84   | .375              | .95   | .85   | .79   |

## PLCC SMT Sockets

\*Web Code: EAR

- Housing: high temp. thermoplastic, UL94V-0
- Contacts: phosphor bronze/tin lead
- Contact resis.: 200MΩ max.
- Insulation resis.: 5000MΩ min.

152688



| Part No. | *Mfr. | Product No.    | Pins | Voltage Rate | 1     | 10    | 100   |
|----------|-------|----------------|------|--------------|-------|-------|-------|
| 2004822  | ♦     | 850-20SMT-T    | 20   | 250V, 1A     | \$.65 | \$.55 | \$.49 |
| 2005286  | ♦     | 850-28SMT-T    | 28   | 250V, 1A     | .69   | .59   | .55   |
| 2004831  | ♦     | 850-32SMT-T    | 32   | 250V, 1A     | .75   | .65   | .59   |
| 152688   | JVP   | 850-44-PPST    | 44   | 250V, 1A     | .79   | .69   | .65   |
| 2005294  | ♦     | 850-52SMT-T    | 52   | 250V, 1A     | .89   | .79   | .69   |
| 1954771  | ♦     | 850-68SMT-T    | 68   | 250V, 1A     | .95   | .85   | .75   |
| 307951   | JVP   | 850-68-PPST    | 68   | 250V, 1A     | .59   | .55   | .49   |
| 152696   | OST   | ED068PLCZ-SM-N | 68   | 250V, 1A     | .59   | .55   | .49   |
| 2004849  | ♦     | 850-84SMT-T    | 84   | 250V, 1A     | 1.19  | .95   | .79   |

## AMP PGA Socket

- Intel Celeron, PIII chip compatibility
- LCP cover material, UL94V-0 natural
- Open frame style
- Low profile
- 19 x 19 grid
- Contacts: copper alloy/gold

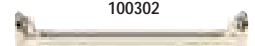


| Part No. | Mfr. Part No. | Pins | 1      | 10     | 100    |
|----------|---------------|------|--------|--------|--------|
| 838735   | 2-916783-2    | 370  | \$5.49 | \$5.09 | \$4.75 |

## SIMM Vertical Sockets

\*Web Code: WAL

- Locking tabs
- Tinned contacts
- Memory module sockets
- Keyed mounting posts



| Part No. | *Mfr. | Product No. | Description               | 1      | 10     | 100    |
|----------|-------|-------------|---------------------------|--------|--------|--------|
| 100302   | JVP   | 2000-1X30S  | Single x 30-pin, vertical | \$1.49 | \$1.35 | \$1.19 |
| 1954754  | ♦     | ES1533      | Single x 72-pin, vertical | 1.95   | 1.75   | 1.49   |
| 1954746  | ♦     | ES1538      | Dual x 30-pin, vertical   | 2.29   | 1.95   | 1.75   |
| 1954762  | ♦     | ES1536      | Dual x 72-pin, vertical   | 2.49   | 2.25   | 1.95   |

## molex .050" (1.27mm) Pitch SIMM Sockets

- 72 positions
- Contact: phosphor bronze
- PCB retention: press-fit plastic peg
- Contact plating (plating thickness): gold (0.76μm; 30μ")
- tin/lead (5μm; 200μ")
- Left polarization



| Part No. | Mfr. Part No. | Description     | 1      | 10     |
|----------|---------------|-----------------|--------|--------|
| 669791   | 15-82-0778    | Vertical        | \$3.95 | \$3.49 |
| 670750   | 15-82-0649    | 40° low profile | 4.29   | 3.85   |
| 670784   | 15-82-1538    | Right angle     | 6.49   | 5.85   |

## molex® .050" (1.27mm) DDR DIMM Socket

- 25° low profile
- Voltage key: 2.5V, left
- Plating tail: tin, lead free
- Contact: copper alloy
- Contact plating: .38µm (15µ") gold



| Part No. | Mfr. Part No. | Position | 1      | 10     |
|----------|---------------|----------|--------|--------|
| 668511   | 87623-2001    | 184      | \$6.95 | \$5.95 |

## molex® .050" (1.27mm) DIMM Sockets

- 168 positions
- Contact: phosphor bronze
- Contact plating: gold over palladium nickel
- 662813/662821/662830/662848: Beveled metal pin, forklock PCB retention
- 668529/668537: Press-fit plastic peg PCB retention



| Part No. | Mfr. Part No. | Description      | 1      | 10     |
|----------|---------------|------------------|--------|--------|
| 662813   | 71736-0001    | DRAM, 3.3V       | \$3.95 | \$3.49 |
| 662821   | 71736-0002    | DRAM, 5.0V       | 3.95   | 3.49   |
| 662830   | 71736-0005    | Unbuffered, 5.0V | 3.95   | 3.49   |
| 662848   | 71736-0006    | SDRAM, 3.3V      | 3.95   | 3.49   |
| 668529   | 71251-0001    | DRAM, 3.3V       | 3.95   | 3.49   |
| 668537   | 71251-0016    | SDRAM, 3.3V      | 3.95   | 3.49   |

\* Voltage References Available Online — Enter Web Code TBD

\* Hot Swap Controllers Available Online — Enter Web Code JAX

## Transistors

\* Web Code: FEN

| * Order in multiples of 10 |       |             |        |       |                  |                             |       |       |       |
|----------------------------|-------|-------------|--------|-------|------------------|-----------------------------|-------|-------|-------|
| Part No.                   | *Mfr. | Product No. | Pkg.   | Desc. | V <sub>ceo</sub> | Min. (h <sub>FE</sub> @ Ic) | 1     | 10    | 100   |
| 26462                      | ♦     | MPSA06      | TO-92  | NPN   | 80               | 100k @ .01A                 | *.05  | \$.05 | \$.04 |
| 26489                      | ♦     | MPSA13*     | TO-92  | NPN   | 30               | 5k @ .01A                   | *.06  | .06   | .05   |
| 210593                     | ♦     | MPSA14      | TO-92  | NPN   | 30               | 20k @ .10A                  | *.05  | .05   | .04   |
| 210681                     | ♦     | MPSA18      | TO-92  | NPN   | 45               | 500 @ .001A                 | *.07  | .06   | .05   |
| 33021                      | ♦     | TIP29A      | TO-220 | NPN   | 60               | 15 @ 1A                     | .35   | .29   | .25   |
| 33048                      | ♦     | TIP31A*     | TO-220 | NPN   | 60               | 10 @ 3A                     | .29   | .25   | .22   |
| 179354                     | FSC   | TIP31C      | TO-220 | NPN   | 100              | 10 @ 3A                     | .29   | .25   | .22   |
| 890568                     | ST    | TIP35C      | TO-218 | NPN   | 100              | 25 @ 1.5A                   | 1.09  | .99   | .89   |
| 33081                      | ♦     | TIP41A      | TO-220 | NPN   | 60               | 15 @ 3A                     | .45   | .39   | .35   |
| 179371                     | ♦     | TIP41C      | TO-220 | NPN   | 100              | 15 @ 3A                     | .35   | .29   | .25   |
| 178546                     | ♦     | MPSA42      | TO-92  | NPN   | 30               | 40 @ .03A                   | *.07  | .06   | .05   |
| 288631                     | ♦     | TIP48       | TO-220 | NPN   | 300              | 30 @ .3A                    | .35   | .29   | .25   |
| 32977                      | ♦     | TIP102*     | TO-220 | NPN   | 100              | 1k @ 3A                     | .39   | .35   | .29   |
| 179240                     | FSC   | TIP102      | TO-220 | NPN   | 100              | 1k @ 3A                     | .45   | .39   | .35   |
| 1094723                    | FSC   | TIP102      | TO-220 | NPN   | 100              | 1k @ 3A                     | .49   | .45   | .39   |
| 32993                      | ♦     | TIP120*     | TO-220 | NPN   | 60               | 1k @ 3A                     | .35   | .29   | .25   |
| 32994                      | ♦     | TIP120      | TO-220 | NPN   | 60               | 1k @ 3A                     | .39   | .35   | .29   |
| 179291                     | FSC   | TIP120      | TO-220 | NPN   | 60               | 1k @ 3A                     | .39   | .35   | .29   |
| 288585                     | ♦     | TIP121      | TO-220 | NPN   | 80               | 1k @ .5A                    | .29   | .25   | .15   |
| 120416                     | ♦     | TIP122      | TO-220 | NPN   | 100              | 1k @ 3A                     | .35   | .25   | .22   |
| 179303                     | FSC   | TIP122      | TO-220 | NPN   | 100              | 1k @ 3A                     | .39   | .29   | .25   |
| 260558                     | NTE   | NTE123AP    | TO-92  | NPN   | 40               | —                           | 1.19  | 1.09  | .99   |
| 890445                     | ST    | TIP142      | TO-218 | NPN   | 100              | 1k @ 0.5A                   | 1.05  | .95   | .85   |
| 273199                     | NTE   | NTE272      | TO-202 | NPN   | —                | —                           | 10.95 | 9.95  | 8.95  |
| 254810                     | ♦     | BC337       | TO-92  | NPN   | 45               | 100 @ .10A                  | *.07  | .05   | .05   |
| 211529                     | ♦     | MJE340      | TO-225 | NPN   | 300              | 30 @ .05A                   | .29   | .25   | .22   |
| 261091                     | NTE   | NTE473      | TO-39  | NPN   | —                | —                           | 3.95  | 3.49  | 3.25  |
| 254799                     | ♦     | BC547C      | TO-92  | NPN   | 45               | 600 @ .002A                 | *.05  | .05   | .04   |
| 254781                     | ♦     | BC548B      | TO-92  | NPN   | 30               | 110 @ .002A                 | *.08  | .06   | .06   |
| 784790                     | FSC   | BC549B      | TO-92  | NPN   | 30               | 110 @ 2mA                   | *.05  | .03   | .03   |
| 916238                     | NXP   | BC8687/R    | SOT-89 | NPN   | 20               | 85 @ 500mA                  | *.05  | .12   | .12   |
| 800568                     | MOT   | MPS918      | TO-92  | NPN   | 15               | 20 @ .003A                  | *.08  | .07   | .07   |
| 38228                      | ♦     | 2N2219A     | TO-39  | NPN   | 40               | 100 @ .15A                  | .45   | .39   | .35   |
| 26446                      | ♦     | MPO2222     | DIP-14 | NPN   | 40               | 100 @ .15A                  | 2.95  | 2.75  | 2.49  |
| 28628                      | ♦     | PN2222*     | TO-92  | NPN   | 30               | 100 @ .15A                  | *.07  | .06   | .06   |
| 38236                      | ♦     | 2N2222A*    | TO-18  | NPN   | 40               | 100 @ .15A                  | .45   | .39   | .35   |
| 38237                      | ♦     | 2N2222A     | TO-18  | NPN   | 40               | 100 @ .15A                  | .49   | .45   | .39   |
| 213938                     | ♦     | MMBT2222A   | SOT-23 | NPN   | 40               | 100 @ .15A                  | *.07  | .05   | .05   |
| 210673                     | ♦     | MPS2222A    | TO-92  | NPN   | 40               | 40 @ .50A                   | *.05  | .05   | .04   |

\* 10 pcs./\*\* 100 pcs. in Transistor cabinet kit, pg 21

♦ Blue Part No. = Limited Quantity Available

## Transistors (Continued)

\* Web Code: FEN

| * Order in multiples of 10 |       |             |                      |                |                  |                             |      |       |       |
|----------------------------|-------|-------------|----------------------|----------------|------------------|-----------------------------|------|-------|-------|
| Part No.                   | *Mfr. | Product No. | Pkg.                 | Desc.          | V <sub>ceo</sub> | Min. (h <sub>FE</sub> @ Ic) | 1    | 10    | 100   |
| 178511                     | ♦     | PN2222A     | TO-92                | NPN            | 40               | 100 @ .15A                  | *.05 | \$.05 | \$.03 |
| 178512                     | ♦     | PN2222A     | TO-92                | NPN            | 40               | 100 @ .15A                  | *.07 | .07   | .05   |
| 803268                     | ON    | PN2222AG    | TO-92                | NPN            | 40               | 50 @ .001A                  | *.09 | .09   | .07   |
| 38295                      | ♦     | 2N3053*     | TO-39                | NPN            | 40               | 25 @ .15A                   | .55  | .49   | .45   |
| 38308                      | ♦     | 2N3055*     | TO-3                 | NPN            | 60               | 15 @ 10A                    | .89  | .79   | .69   |
| 211406                     | ♦     | 2N3055A     | TO-3                 | NPN            | 60               | 20 @ 4A                     | 1.75 | 1.45  | 1.15  |
| 211385                     | ♦     | TIP3055     | TO-218               | NPN            | 60               | 5 @ .001A                   | .85  | .75   | .69   |
| 25857                      | ♦     | MJE3055T    | TO-220               | NPN            | 60               | 20 @ 4A                     | .39  | .35   | .29   |
| 194415                     | ♦     | 2N3439      | TO-39                | NPN            | 350              | 40 @ .02A                   | .75  | .65   | .55   |
| 209242                     | ♦     | 2N3771      | TO-3                 | NPN            | 40               | 15 @ 15A                    | 1.95 | 1.75  | 1.49  |
| 140151                     | ♦     | 2N3773      | TO-3                 | NPN            | 140              | 15 @ 8A                     | 1.95 | 1.49  | 1.25  |
| 38359                      | ♦     | 2N3904*     | TO-92                | NPN            | 40               | 100 @ .01A                  | *.05 | .03   | .03   |
| 38360                      | ♦     | 2N3904      | TO-92                | NPN            | 40               | 100 @ .01A                  | *.05 | .05   | .03   |
| 178597                     | FSC   | 2N3904      | TO-92                | NPN            | 40               | 100 @ .01A                  | *.05 | .05   | .03   |
| 783421                     | FSC   | 2N3904      | TO-92                | NPN            | 40               | 100 @ .01A                  | *.05 | .05   | .03   |
| 94967                      | ♦     | MMBT3904    | SOT-23               | NPN            | 40               | 100 @ .01A                  | *.06 | .06   | .04   |
| 1944927                    | FSC   | PN4275      | TO-92                | NPN            | 15               | 35 @ .01A                   | *.09 | .07   | .07   |
| 38421                      | ♦     | 2N4401*     | TO-92                | NPN            | 40               | 100 @ .15A                  | *.05 | .05   | .04   |
| 211490                     | ♦     | 2N4923      | TO-225               | NPN            | —                | 80 @ 1A                     | .45  | .39   | .35   |
| 1201380                    | FSC   | PN4953      | TO-92                | NPN            | 30               | 150 @ .01A                  | *.05 | .05   | .04   |
| 310666                     | ♦     | 2N5038      | TO-3                 | NPN            | 150              | 20 @ 12A                    | 4.75 | 4.49  | 3.95  |
| 140373                     | ♦     | 2N5179      | TO-72                | NPN            | 12               | 25 @ .003A                  | 1.09 | .99   | .89   |
| 1945081                    | FSC   | 2N5306      | TO-92                | NPN            | 25               | 7000 @ .002A                | *.05 | .05   | .04   |
| 194600                     | ♦     | 2N6059      | TO-3                 | NPN            | 100              | 750 @ 6A                    | 1.95 | 1.75  | 1.49  |
| 924300                     | ST    | 2N6284      | TO-3/2               | NPN            | 100              | 750 @ 10A                   | 3.25 | 2.95  | 2.59  |
| 140353                     | ♦     | 2N6488      | TO-220AB             | NPN            | 80               | 20 @ 5A                     | .79  | .65   | .49   |
| 1945031                    | FSC   | MPS6515     | TO-92                | NPN            | 25               | 250 @ .002A                 | *.05 | .05   | .04   |
| 194618                     | ♦     | 2N6547      | TO-3                 | NPN            | 400              | 12 @ 5A                     | 4.49 | 4.25  | 3.75  |
| 194626                     | ♦     | 2N6678      | TO-3                 | NPN            | 400              | 8 @ 15A                     | 6.95 | 6.25  | 5.49  |
| 33030                      | ♦     | TIP30A      | TO-220               | PNP            | 60               | 15 @ 1A                     | .39  | .35   | .29   |
| 33064                      | ♦     | TIP32A*     | TO-220               | PNP            | 60               | 10 @ 3A                     | .35  | .29   | .25   |
| 181841                     | ♦     | TIP32C      | TO-220               | PNP            | 100              | 10 @ 3A                     | .29  | .25   | .22   |
| 890592                     | ST    | TIP36C      | TO-218               | PNP            | 100              | 25 @ 1.5A                   | 1.05 | .95   | .85   |
| 33101                      | ♦     | TIP42A      | TO-220               | PNP            | 60               | 15 @ 3A                     | .39  | .35   | .29   |
| 139580                     | ♦     | TIP42C      | TO-220               | PNP            | 100              | 15 @ 3A                     | .35  | .29   | .25   |
| 32985                      | ♦     | TIP106      | TO-220               | PNP            | 80               | 1k @ 3A                     | .59  | .49   | .35   |
| 179258                     | ♦     | TIP107      | TO-220               | PNP            | 100              | 1k @ 3A                     | .45  | .39   | .35   |
| 288526                     | ♦     | TIP115      | TO-220               | PNP            | 60               | 1k @ 1A                     | .35  | .29   | .25   |
| 288542                     | ♦     | TIP117      | TO-220               | PNP            | 100              | 1k @ 1A                     | .29  | .25   | .19   |
| 33013                      | ♦     | TIP125      | TO-220               | PNP            | 60               | 1k @ 3A                     | .29  | .25   | .22   |
| 179320                     | ♦     | TIP127      | TO-220               | PNP            | 100              | 1k @ 3A                     | .35  | .29   | .25   |
| 260611                     | NTE   | NTE159      | TO-92                | PNP            | 80               | —                           | 1.25 | 1.05  | .95   |
| 1215986                    | ♦     | BC327       | TO-92                | PNP            | -45              | 100 @ .10A                  | *.15 | .15   | .12   |
| 1085500                    | FSC   | MPS750RL    | TO-92                | PNP            | 40               | 75 @ .05A                   | .25  | .22   | .15   |
| 194378                     | ♦     | 2N2905A     | TO-39                | PNP            | 60               | 100 @ .15A                  | .45  | .39   | .35   |
| 924297                     | ST    | 2N2907      | TO-39/3              | PNP            | -40              | 75 @ -.01A                  | .59  | .49   | .45   |
| 26454                      | ♦     | MPO2907     | DIP-14               | PNP            | 40               | 100 @ .15A                  | 1.95 | 1.75  | 1.49  |
| 28644                      | ♦     | PN2907*     | TO-92                | PNP            | 40               | 100 @ .15A                  | *.05 | .05   | .03   |
| 211342                     | ♦     | MPS2907A    | TO-92                | PNP            | 60               | 100 @ .15A                  | *.07 | .06   | .06   |
| 178520                     | ♦     | PN2907A     | TO-92                | PNP            | 60               | 100 @ .15A                  | *.05 | .05   | .03   |
| 38279                      | ♦     | 2N2907A*    | TO-18                | PNP            | 60               | 100 @ .15A                  | .45  | .39   | .35   |
| 211502                     | ♦     | MJ2955      | TO-3                 | PNP            | 60               | 20 @ 4A                     | .99  | .89   | .79   |
| 25831                      | ♦     | MJE2955T    | TO-220               | PNP            | 60               | 20 @ 4A                     | .39  | .35   | .29   |
| 1944986                    | FSC   | PN3644      | TO-92                | PNP            | 45               | 100 @ .01A                  | *.06 | .06   | .04   |
| 38375                      | ♦     | 2N3906*     | TO-92                | PNP            | 40               | 100 @ .01A                  | *.05 | .05   | .03   |
| 178618                     | FSC   | 2N3906      | TO-92                | PNP            | 40               | 100 @ .01A                  | *.05 | .05   | .04   |
| 1944943                    | FSC   | PN4122      | TO-92                | PNP            | 40               | 150 @ 1mA                   | *.12 | .07   | .07   |
| 1944951                    | FSC   | PN4355      | TO-92                | PNP            | 60               | 100 @ 1mA                   | *.15 | .15   | .12   |
| 38447                      | ♦     | 2N4403*     | TO-92                | PNP            | 40               | 100 @ .15A                  | *.05 | .05   | .04   |
| 2095411                    | ♦     | —           | Transistor mtg. pads | TO-92/98/18/72 | —                | —                           | *.05 | .05   | .04   |

\* 10 pcs./\*\* 100 pcs. in Transistor cabinet kit, pg 21

Transistors continued on next page

\* FSC = Fairchild Semiconductor | MOT = Motorola | NTE = NTE Electronics | NXP = NXP/Philips | ON = ON Semi | ST = ST Micro | ♦ Manufacturer Varies

♦ RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 197.





## Transistors (Continued)

\*Web Code: FEN

| * Order in multiples of 10 |       |             |        |       |                  |  |            |        |        |
|----------------------------|-------|-------------|--------|-------|------------------|--|------------|--------|--------|
| Part No.                   | *Mfr. | Product No. | Pkg.   | Desc. | V <sub>CEO</sub> | Min. (I <sub>FE</sub> @ I <sub>C</sub> ) | 1          | 10     | 100    |
| 1944935                    | FSC   | PN4917      | TO-92  | PNP   | 30               | 150 @ 1mA                                | ..... *    | \$ .12 | \$ .07 |
| 210649                     | +     | 2N5401      | TO-92  | PNP   | 150              | 60 @ .01A                                | ..... *    | .11    | .09    |
| 253438                     | +     | 2N5884      | TO-3   | PNP   | 80               | 4 @ 25A                                  | ..... 2.75 | 2.49   | 1.75   |
| 194571                     | +     | 2N6042      | TO-220 | PNP   | 100              | 1k @ 3A                                  | ..... .65  | .55    | .45    |
| 194597                     | +     | 2N6052      | TO-3   | PNP   | 100              | 750 @ 6A                                 | ..... 2.49 | 2.25   | 1.95   |
| 261121                     | NTE   | NTE6410     | TO-92  | PNP   | 30               | —  | ..... 4.95 | 4.49   | 3.95   |
| 885697                     | ON    | 2N6520RLRA  | TO-92  | PNP   | 350              | 20 @ 1mA                                 | ..... *    | .12    | .09    |

## Transistor Assortment Cabinet Kit

Includes: 20 drawer component cabinet (319600), 20 clear plastic drawers (319601), 20 clear dividers (319611), pg 173 and 30 adhesive labels for drawers to identify parts in kit

10 each: 2N2222A, 2N2907A, 2N3053, 2N3055, 2N4401, 2N4403, 2N5951, 2N7000, MJE3055T, MPF102, MPSA06, MPSA13, TIP31A, TIP32A, TIP102, TIP120  
100 each: 2N3904, 2N3906, PN2222, PN2907

| Part No. | Description                                 | Wt. (lbs.) | 1             | 5       |
|----------|---|------------|---------------|---------|
| 82595    | 560 pcs. (20 types) NPN, PNP transistor kit | 5.1        | ..... \$69.95 | \$59.95 |
| 130374   | Refill for 82595 (560 pcs.)                 | 0.4        | ..... 54.95   | 49.95   |

## J-FETs

Please Note: Manufacturer may vary

\*Web Code: JAD

| * Order in multiples of 10 |             |       |         |  |  |              |        |         |  |
|----------------------------|-------------|-------|---------|--|--|--------------|--------|---------|--|
| Part No.                   | Product No. | Pkg.  | Channel | BV <sub>DS</sub> @ I <sub>G</sub> (μA) | I <sub>SS</sub> (mA) @ V <sub>DS</sub> | 10           | 100    | 1000    |  |
| 26403                      | MPF102*     | TO-92 | N       | -25 @ -10                              | 2 @ 15                                 | ..... \$1.10 | \$ .09 | \$ .055 |  |
| 210622                     | 2N3819      | TO-92 | N       | -25 @ -1                               | 20 @ 15                                | ..... .09    | .07    | .06     |  |
| 1945006                    | PN4093      | TO-92 | N       | -40 @ 1                                | 15 @ 20                                | ..... .09    | .07    | .04     |  |
| 253948                     | 2N5457      | TO-92 | N       | -25 @ -10                              | 1 @ 15                                 | ..... .08    | .07    | .05     |  |
| 253921                     | 2N5458      | TO-92 | N       | -25 @ -10                              | 2 @ 15                                 | ..... .09    | .07    | .06     |  |
| 38527                      | 2N5951*     | TO-92 | N       | -30 @ -1                               | 7 @ 15                                 | ..... .09    | .07    | .06     |  |
| 253913                     | 2N5460      | TO-92 | P       | 40 @ 10                                | -1 @ -15                               | ..... .13    | .11    | .09     |  |

\*10 pcs. in Transistor cabinet kit, above

## N-Channel & P-Channel MOSFETs

\*Web Code: GCJ

| * Order in multiples of 10 |       |             |            |         |                  |                        |              |        |        |
|----------------------------|-------|-------------|------------|---------|------------------|------------------------|--------------|--------|--------|
| Part No.                   | *Mfr. | Product No. | Pkg.       | Channel | BV <sub>DS</sub> | Min. On-St. DS Current | 1            | 10     | 100    |
| 669871                     | +     | IRFZ24N     | TO-220AB   | N       | 55               | 17A                    | ..... \$ .89 | \$ .79 | \$ .59 |
| 669927                     | +     | IRFBG30     | TO-220AB   | N       | 1000             | 3.1A                   | ..... 1.59   | 1.39   | 1.19   |
| 669935                     | +     | IRFZ34N     | TO-220AB   | N       | 55               | 26A                    | ..... .85    | .75    | .65    |
| 669943                     | +     | IRLZ34N     | TO-220AB   | N       | 55               | 30A                    | ..... .79    | .69    | .59    |
| 669951                     | +     | IRFZ44N     | TO-220AB   | N       | 55               | 49A                    | ..... .95    | .85    | .75    |
| 669978                     | +     | IRFZ46N     | TO-220AB   | N       | 55               | 53A                    | ..... .99    | .89    | .79    |
| 669986                     | +     | IRFZ48N     | TO-220AB   | N       | 55               | 64A                    | ..... 1.05   | .95    | .85    |
| 256031                     | +     | BS170       | TO-92      | N       | 60               | 0.5A (max.)            | ..... *      | .10    | .08    |
| 670071                     | +     | IRFR220N    | TO-252AA   | N       | 200              | 5A                     | ..... .49    | .39    | .29    |
| 670098                     | +     | IRFP250N    | TO-247AC   | N       | 200              | 30A                    | ..... 1.75   | 1.35   | 1.15   |
| 670101                     | +     | IRFP260N    | TO-247     | N       | 200              | 50A                    | ..... 2.75   | 1.95   | 1.45   |
| 871092                     | FSC   | FDV303N     | SOT-23     | N       | 25               | 0.5A†                  | ..... *      | .12    | .09    |
| 871017                     | FSC   | FDN337N     | SuperSOT-3 | N       | 30               | 10A                    | ..... .25    | .22    | .15    |
| 670135                     | +     | IRFP450     | TO-247     | N       | 500              | 14A                    | ..... 2.05   | 1.85   | 1.65   |
| 670143                     | +     | IRFP460     | TO-247     | N       | 500              | 20A                    | ..... 2.49   | 2.25   | 1.85   |
| 209234                     | +     | IRF510      | TO-220     | N       | 100              | 5.6A                   | ..... .79    | .59    | .45    |
| 209226                     | +     | IRF520      | TO-220     | N       | 100              | 10A                    | ..... .89    | .79    | .69    |
| 209058                     | +     | IRL520N     | TO-220     | N       | 100              | 10A                    | ..... .65    | .55    | .45    |
| 210500                     | +     | IRF530      | TO-220     | N       | 100              | 14A                    | ..... .79    | .69    | .59    |

† DMOS FET

## N-Channel & P-Channel MOSFETs (Continued)

\*Web Code: GCJ

| * Order in multiples of 10 |       |             |             |         |                  |                        |              |        |        |
|----------------------------|-------|-------------|-------------|---------|------------------|------------------------|--------------|--------|--------|
| Part No.                   | *Mfr. | Product No. | Pkg.        | Channel | BV <sub>DS</sub> | Min. On-St. DS Current | 1            | 10     | 100    |
| 670151                     | +     | IRF530N     | TO-220AB    | N       | 100              | 17A                    | ..... \$ .85 | \$ .75 | \$ .65 |
| 670160                     | +     | IRL530N     | TO-220AB    | N       | 100              | 17A                    | ..... .89    | .79    | .69    |
| 210518                     | +     | IRF540      | TO-220      | N       | 100              | 27A                    | ..... .75    | .65    | .55    |
| 670178                     | +     | IRF540NS    | D2PAK       | N       | 100              | 33A                    | ..... .69    | .59    | .39    |
| 670194                     | +     | IRL540N     | TO-220AB    | N       | 100              | 30A                    | ..... 1.25   | 1.15   | .95    |
| 210526                     | +     | IRF620      | TO-220      | N       | 200              | 6.0A                   | ..... .45    | .39    | .35    |
| 210534                     | +     | IRF630      | TO-220      | N       | 200              | 9.0A                   | ..... .45    | .39    | .35    |
| 210542                     | +     | IRF640      | TO-220      | N       | 200              | 18A                    | ..... .79    | .69    | .59    |
| 670223                     | +     | IRF640NS    | D2PAK       | N       | 200              | 18A                    | ..... .59    | .49    | .45    |
| 670231                     | +     | IRF644      | TO-220AB    | N       | 250              | 14A                    | ..... .79    | .69    | .59    |
| 210551                     | +     | IRF730      | TO-220      | N       | 400              | 5.5A                   | ..... .75    | .65    | .55    |
| 210569                     | +     | IRF740      | TO-220      | N       | 400              | 10A                    | ..... .65    | .55    | .45    |
| 210577                     | +     | IRF820      | TO-220      | N       | 500              | 4.0A                   | ..... .59    | .49    | .45    |
| 210585                     | +     | IRF830      | TO-220      | N       | 500              | 4.5A                   | ..... .55    | .45    | .39    |
| 184719                     | +     | IRF840      | TO-220      | N       | 500              | 8.0A                   | ..... .85    | .75    | .65    |
| 787798                     | FSC   | RFP12N10L   | TO-220AB    | N       | 100              | 12A                    | ..... .69    | .59    | .45    |
| 670274                     | +     | IRF1310N    | TO-220AB    | N       | 100              | 36A                    | ..... .79    | .69    | .49    |
| 670282                     | +     | IRF1405     | TO-220AB    | N       | 55               | 169A                   | ..... 2.45   | 2.15   | 1.95   |
| 279460                     | +     | VN2222LL    | TO-92       | N       | 60               | 0.75A                  | ..... .35    | .29    | .25    |
| 874875                     | FSC   | NDT3055L    | SOT-223     | N       | 60               | 10A                    | ..... .29    | .25    | .19    |
| 1559640                    | INR   | IRF3205PBF  | TO-220      | N       | 55               | 110A                   | ..... 1.75   | 1.55   | 1.35   |
| 618089                     | +     | IRF3205     | TO-220      | N       | 55               | 110A                   | ..... 1.55   | 1.35   | 1.15   |
| 670354                     | +     | IRF3415     | TO-220AB    | N       | 150              | 43A                    | ..... 1.75   | 1.55   | 1.35   |
| 618071                     | +     | IRL3705     | TO-220      | N       | 55               | 89A                    | ..... 1.25   | 1.15   | 1.05   |
| 670371                     | +     | IRFPS37N50A | Super-247   | N       | 500              | 36A                    | ..... 6.25   | 5.49   | 4.75   |
| 255038                     | +     | SI4420DY    | SOIC-8      | N       | 30               | 30A                    | ..... 1.25   | 1.05   | .85    |
| 875051                     | FSC   | RFP50N06    | TO-220AB    | N       | 60               | 50A                    | ..... .95    | .75    | .65    |
| 119423                     | +     | 2N7000      | TO-92       | N       | 60               | 0.3A                   | ..... *      | .07    | .05    |
| 178669                     | FSC   | 2N7000*     | TO-92       | N       | 60               | 0.2A                   | ..... *      | .08    | .06    |
| 783594                     | FSC   | 2N7000      | TO-92       | N       | 60               | 0.75A                  | ..... *      | .09    | .07    |
| 140169                     | +     | 2N7002      | SOT-23      | N       | 60               | 0.5A                   | ..... *      | .07    | .05    |
| 670397                     | +     | IRF7401     | SOIC-8      | N       | 20               | 10A                    | ..... .59    | .49    | .35    |
| 256057                     | +     | BS250       | TO-92       | P       | -45              | 0.25A (max.)           | ..... .49    | .45    | .39    |
| 871113                     | FSC   | FDV304P     | SOT-23      | P       | -25              | -1A†                   | ..... *      | .12    | .09    |
| 1944901                    | +     | ZVP3306A    | TO-92       | P       | -60              | -0.4A†                 | ..... .39    | .29    | .25    |
| 920288                     | FSC   | FQA36P15-NL | TO-3P       | P       | -150             | -18A                   | ..... 1.49   | 1.25   | 1.09   |
| 870971                     | FSC   | FDC640P     | Super SOT-6 | P       | -20              | -20A                   | ..... .25    | .22    | .15    |
| 670442                     | +     | IRF4905     | TO-220AB    | P       | -55              | -74A                   | ..... 1.49   | 1.35   | 1.25   |
| 1559851                    | INR   | IRF4905PBF  | TO-220AB    | P       | -55              | -74A                   | ..... 1.75   | 1.55   | 1.45   |
| 670477                     | +     | IRF5210     | TO-220AB    | P       | -100             | -40A                   | ..... 1.75   | 1.55   | 1.35   |
| 670485                     | +     | IRF5305     | TO-220AB    | P       | -55              | -31A                   | ..... .99    | .89    | .79    |
| 670531                     | +     | IRF7404     | SOIC-8      | P       | -20              | -7.7A                  | ..... .29    | .25    | .17    |
| 670549                     | +     | IRF7416     | SOIC-8      | P       | -30              | -10A                   | ..... .49    | .45    | .29    |
| 670581                     | +     | IRF9Z34N    | TO-220AB    | P       | -55              | -1.8A                  | ..... .89    | .79    | .69    |
| 670629                     | +     | IRF9520     | TO-220AB    | P       | -100             | 6A                     | ..... .65    | .55    | .45    |
| 670741                     | +     | IRF9530     | TO-220AB    | P       | -100             | -12A                   | ..... .59    | .49    | .45    |
| 670637                     | +     | IRF9530N    | TO-220AB    | P       | -100             | -14A                   | ..... .99    | .89    | .79    |
| 670645                     | +     | IRF9540N    | TO-220AB    | P       | -100             | -23A                   | ..... 1.25   | 1.05   | .95    |
| 670653                     | +     | IRF9640     | TO-220AB    | P       | -200             | -11A                   | ..... 1.15   | .95    | .85    |
| 255089                     | +     | SI4963DY    | SOIC-8      | Dual P  | -20              | -20A                   | ..... .99    | .79    | .59    |
| 670661                     | +     | IRF7103     | SOIC-8      | Dual N  | 50               | 3A                     | ..... .39    | .35    | .25    |
| 670670                     | +     | IRF7303     | SOIC-8      | Dual N  | 30               | 5.3A                   | ..... .35    | .29    | .19    |

\*10 pcs. in Transistor cabinet kit, above left † DMOS FET ⚙ Blue Part No. = Limited Quantity Available

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|---|---------------|----------|------|---------|-----------------------------|------------|----------------------------|--------|--------|
| Part No.  | Mfr.          | Part No. | Pkg. | Channel | Min. On-St. V <sub>DS</sub> | DS Current | * Order in multiples of 10 |        |        |
|   |               |          |      |         |                             |            | 1                          | 10     | 100    |
| 1563147   | IRFZ44NPBF    | TO-220AB | N    | 55      | 49A                         | .....      | \$ .99                     | \$ .89 | \$ .79 |
| 1951334   | IRF530NS      | D2-PAK   | N    | 100     | 17A                         | .....      | .49                        | .35    | .25    |
| 1560051   | IRF540NPBF    | TO-220AB | N    | 100     | 33A                         | .....      | 1.75                       | 1.45   | 1.29   |
| 1563690   | IRLM5203TRPBF | Micro-3  | P    | -30     | -3A                         | .....      | *                          | .15    | .12    |
| 1559965   | IRF5305PBF    | TO-220AB | P    | -55     | -31A                        | .....      | 1.05                       | .95    | .85    |
| 1561619   | IRF9640PBF    | TO-220AB | P    | -400    | -11A                        | .....      | 1.15                       | .95    | .85    |

## Zener Diodes \* Web Code: LAF

| Part No. | *Mfr. | Product No. | Pkg.        | V <sub>Znom</sub> | Pwr Dissipation | * Order in multiples of 10 |        |        |
|----------|-------|-------------|-------------|-------------------|-----------------|----------------------------|--------|--------|
|          |       |             |             |                   |                 | 1                          | 10     | 100    |
| 36290    | ♦     | 1N751A      | DO-35       | 5.1V              | 0.5W            | .....                      | \$ .05 | \$ .03 |
| 178773   | VSH   | 1N4732A     | DO-41       | 4.7V              | 1W              | .....                      | .07    | .05    |
| 36097    | ♦     | 1N4733A*    | DO-41       | 5.1V              | 1W              | .....                      | .05    | .04    |
| 36118    | ♦     | 1N4734A     | DO-41       | 5.6V              | 1W              | .....                      | .07    | .05    |
| 36126    | ♦     | 1N4735A     | DO-41       | 6.2V              | 1W              | .....                      | .05    | .04    |
| 178837   | ♦     | 1N4739A     | DO-41       | 9.1V              | 1W              | .....                      | .05    | .04    |
| 36169    | ♦     | 1N4742A*    | DO-41       | 12V               | 1W              | .....                      | .05    | .04    |
| 36185    | ♦     | 1N4744A     | DO-41       | 15V               | 1W              | .....                      | .07    | .05    |
| 782911   | FSC   | 1N4748ATR   | DO-41       | 22V               | 1W              | .....                      | .05    | .03    |
| 782922   | FSC   | 1N4749AT/R  | DO-41       | 24V               | 1W              | .....                      | .05    | .04    |
| 782962   | FSC   | 1N4752ATR   | DO-41       | 33V               | 1W              | .....                      | .05    | .03    |
| 743488   | FSC   | 1N5226BR    | DO-35       | 3.3V              | 0.5W            | .....                      | .05    | .03    |
| 179039   | ♦     | 1N5230B     | DO-35       | 4.7V              | 0.5W            | .....                      | .05    | .02    |
| 179047   | ♦     | 1N5231B     | DO-35       | 5.1V              | 0.5W            | .....                      | .05    | .02    |
| 743541   | ♦     | 1N5237B     | DO-35       | 8.2V              | 0.5W            | .....                      | * .05  | .04    |
| 179063   | ♦     | 1N5234B     | DO-35       | 6.2V              | 0.5W            | .....                      | .05    | .02    |
| 179135   | ♦     | 1N5250B     | DO-35       | 20V               | 0.5W            | .....                      | .05    | .02    |
| 804818   | ON    | 1N5352BG    | Surmetic-40 | 15V               | 5W              | .....                      | .35    | .29    |
| 804914   | ON    | 1N5359BG    | Surmetic-40 | 24V               | 5W              | .....                      | .29    | .25    |

\*10 pcs. in Diode/Rectifier cabinet kit, pg 23 ♦ Blue Part No. = Limited Quantity Available

## Diodes \* Web Code: PAK

| Part No. | *Mfr. | Product No.    | Pkg.     | Description                            | * Order in multiples of 10 |        |        |
|----------|-------|----------------|----------|--|----------------------------|--------|--------|
|          |       |                |          |  | 1                          | 10     | 100    |
| 1559164  | INR   | HFA08TB60PBF   | TO-220AC | 600VBR, 8A (Ultrafast)                 | .....                      | \$1.09 | \$ .99 |
| 915323   | NXP   | BAS40-04T/R    | SOT-23   | 40V <sub>R</sub> , 120mA (Schottky)    | .....                      | *      | .05    |
| 915972   | NXP   | BAV99ST/R      | SOT-363  | 85V <sub>RRM</sub> , 0.5A (Switching)  | .....                      | *      | .07    |
| 35941    | ♦     | 1N270*         | DO-7     | 80PRV (Germanium)                      | .....                      | .99    | .79    |
| 1538865  | DDI   | B340A-13F      | SMA      | 40V <sub>RRM</sub> , 3A (Schottky)     | .....                      | .25    | .22    |
| 313402   | ♦     | MMBD914        | SOT-23   | 100V <sub>RRM</sub> , 0.2A (Switching) | .....                      | *      | .05    |
| 312101   | ♦     | MBR1100        | DO-41    | 100PRV, 1.0A (Schottky)                | .....                      | .25    | .22    |
| 1556650  | AVT   | HSMS-2802-BLKG | SOT-23   | RF schottky barrier series, 70V        | .49                        | .39    | .35    |
| 1556879  | AVT   | HSMS-2825-BLKG | SOT-143  | RF schottky barrier series, 15V        | .49                        | .39    | .35    |
| 1585240  | AVT   | HSMS-2860-BLKG | SOT-23   | Forward voltage 350mV                  | .69                        | .55    | .45    |
| 787940   | FSC   | RURP3020       | TO-220AC | 200V <sub>RRM</sub> , 30A (Ultrafast)  | .....                      | 2.75   | 2.49   |
| 36038    | ♦     | 1N4148**       | DO-35    | 75PRV, 0.01A (Switching)               | .....                      | *      | .05    |
| 151247   | ♦     | 1N4148T        | DO-35    | 75PRV, 0.01A (tape/reel)               | .....                      | *      | .05    |
| 179215   | VSH   | 1N4148         | DO-35    | 100PRV (Switching)                     | .....                      | *      | .05    |
| 743710   | ST    | 1N6263         | DO-35    | 60V <sub>RRM</sub> , 50mA (Schottky)   | .....                      | .15    | .09    |
| 1558946  | INR   | 80SQ045        | DO-204   | 40V <sub>RRM</sub> , 8A (Schottky)     | .....                      | .99    | .89    |

\*10 pcs./\*\*100 pcs. in Diode/Rectifier cabinet kit, pg 23

## Small Signal Diodes \* Web Code: JDQ

| Part No. | *Mfr. | Product No. | Pkg.  | Description                | Order in multiples of 10 |        |        |
|----------|-------|-------------|-------|----------------------------|--------------------------|--------|--------|
|          |       |             |       |                            | 10                       | 100    | 1000   |
| 655613   | ♦     | BAY73       | DO-35 | 125V <sub>RRM</sub> , 0.5A | .....                    | \$ .02 | \$ .01 |
| 36311    | ♦     | 1N914**     | DO-35 | 75PRV, 0.01A               | .....                    | .05    | .02    |
| 179207   | VSH   | 1N914       | DO-35 | 100PRV                     | .....                    | .05    | .02    |
| 655269   | ♦     | 1N914A      | DO-35 | 100V <sub>RRM</sub> , 0.2A | .....                    | .05    | .03    |
| 655285   | ♦     | 1N916       | DO-35 | 100V <sub>RRM</sub> , 0.2A | .....                    | .05    | .01    |

\*\*100 pcs. in Diode/Rectifier cabinet kit, pg 23

## Transient Voltage Suppressors \* Web Code: QBQ

| Part No. | Product No. | Watt | Pkg.     | Min. Brkdw. Volt. (V <sub>BR</sub> ) | Stand-Off Voltage | * Order in multiples of 10 |          |        |
|----------|-------------|------|----------|--------------------------------------|-------------------|----------------------------|----------|--------|
|          |             |      |          |                                      |                   | 1                          | 10       | 100    |
| 255847   | P6KE24CA    | 600  | DO-15    | 22.8                                 | 20.5              | .....                      | * \$ .12 | \$ .09 |
| 255775   | P6KE33CA    | 600  | DO-15    | 31.4                                 | 28.2              | .....                      | * .15    | .12    |
| 255741   | P6KE39CA    | 600  | DO-15    | 37.1                                 | 33.3              | .....                      | * .12    | .09    |
| 255951   | P6K150CA    | 600  | DO-15    | 143.0                                | 128               | .....                      | * .12    | .09    |
| 255839   | P6K250CA    | 600  | DO-15    | 237.0                                | 214               | .....                      | * .15    | .12    |
| 313234   | SMCJ10CA    | 1500 | DO-214AB | 11.1                                 | 10                | .....                      | .29      | .25    |
| 313082   | SMCJ58CA    | 1500 | DO-214AB | 64.4                                 | 58                | .....                      | .29      | .25    |
| 618118   | 1N5908      | 1500 | DO-41    | 6.0                                  | —                 | .....                      | .25      | .22    |

## Triacs \* Web Code: PAE

| Part No. | *Mfr. | Product No. | Pkg.     | Rating                              | * Order in multiples of 10 |        |        |
|----------|-------|-------------|----------|-------------------------------------|----------------------------|--------|--------|
|          |       |             |          |                                     | 1                          | 10     | 100    |
| 160098   | ♦     | HT-32       | DO-35    | 27.37 V <sub>BO</sub> , 2A          | .....                      | \$ .25 | \$ .22 |
| 31819    | ♦     | SC146B      | TO-220   | 200 V <sub>DRM</sub> , 10A (2N6342) | .....                      | 1.49   | 1.35   |
| 31827    | ♦     | SC146M      | TO-220   | 600 V <sub>DRM</sub> , 10A (2N6344) | .....                      | 1.95   | 1.75   |
| 1165690  | BNS   | TIC201M     | TO-220   | 600 V <sub>DRM</sub> , 2.5A         | .....                      | .49    | .39    |
| 160207   | TEC   | Q4008L4     | TO-220AB | 400 V <sub>DRM</sub> , 8A           | .....                      | 1.19   | 1.09   |
| 220492   | TEC   | Q4008R4     | TO-220AB | 400 V <sub>DRM</sub> , 8A           | .....                      | .89    | .79    |
| 139336   | TEC   | Q4015L5     | TO-220AB | 400 V <sub>DRM</sub> , 15A          | .....                      | 1.29   | 1.19   |
| 160143   | TEC   | Q4025L6     | TO-220AB | 400 V <sub>DRM</sub> , 25A          | .....                      | 2.25   | 2.05   |
| 160215   | TEC   | Q6008L5     | TO-220AB | 600 V <sub>DRM</sub> , 8A           | .....                      | 1.09   | .99    |
| 160231   | TEC   | Q6015L5     | TO-220AB | 600 V <sub>DRM</sub> , 15A          | .....                      | 1.75   | 1.49   |
| 220505   | TEC   | Q6025R6     | TO-220AB | 600 V <sub>DRM</sub> , 25A          | .....                      | 1.75   | 1.55   |
| 220521   | TEC   | Q6035P5     | TO-3     | 600 V <sub>DRM</sub> , 35A          | .....                      | 7.95   | 6.95   |
| 140425   | ♦     | 2N6071A     | TO-225AA | 200 V <sub>DRM</sub> , 4A           | .....                      | .39    | .35    |

## SanRex® Fast-On Package Triac \* Web Code: PCH

| Part No. | Mfr.    | Part No. | Pkg.     | Rating (X <sub>PRM</sub> , I <sub>T(RMS)</sub> ) | 1      | 10     | 100    |
|----------|---------|----------|----------|--|--------|--------|--------|
| 658275   | TG35F60 | Fast-On  | Isolated | 35A, 600V  | \$8.95 | \$7.95 | \$6.95 |

† For cross-references to Littelfuse, ST, and ON Semi products refer to datasheets @ Jameco.com.

## Rectifiers \* Web Code: LBD

| Part No. | *Mfr. | Product No. | Pkg.     | Rating                               | * Order in multiples of 10 |        |        |        |
|----------|-------|-------------|----------|--------------------------------------|----------------------------|--------|--------|--------|
|          |       |             |          |                                      | 1                          | 10     | 100    | 1000   |
| 177754   | TAT   | T6A05L      | T6L      | 50 PIV, 6A                           | .....                      | \$ .39 | \$ .35 | \$ .29 |
| 177762   | TAT   | T6A10L      | T6L      | 100 PIV, 6A                          | .....                      | .49    | .45    | .39    |
| 177818   | TAT   | T6A100L     | T6L      | 1000 PIV, 6A                         | .....                      | .69    | .59    | .45    |
| 618062   | ♦     | 40CPQ060    | TO-247AC | 60 V <sub>RRM</sub> , 40A (Schottky) | 1.75                       | 1.49   | 1.25   | 1.15   |
| 879991   | ON    | MURS140T3   | SMB      | 400 @ 1A (Ultrafast)                 | .....                      | *      | .12    | .09    |
| 1645097  | GI    | 1N645-1     | DO-35    | 225 PRV, .15A                        | .....                      | 1.49   | 1.25   | .99    |
| 35924    | ♦     | 1N1188      | DO-5     | 400 PRV, 35A                         | .....                      | 4.25   | 3.75   | 3.35   |
| 618100   | ♦     | MBR745      | TO-220   | 35V <sub>RRM</sub> , 7.5A            | .....                      | .35    | .29    | .25    |
| 618097   | ♦     | MBR2535CT   | TO-220   | 35 VRPM, 30A                         | .....                      | .39    | .35    | .22    |
| 35975    | ♦     | 1N4001*     | DO-41    | 50 PRV, 1A                           | .....                      | *      | .05    | .02    |
| 1537862  | DDI   | 1N4001G-T   | DO-41    | 50V <sub>RRM</sub> , 1A              | .....                      | *      | .04    | .03    |
| 76961    | ♦     | 1N4002      | DO-41    | 100 PRV, 1A                          | .....                      | *      | .05    | .02    |
| 76962    | ♦     | 1N4002-T    | DO-41    | 100 PRV, 1A                          | .....                      | *      | .06    | .03    |
| 1537889  | DDI   | 1N4002-T    | DO-41    | 100 V <sub>RRM</sub> , 1A            | .....                      | *      | .05    | .02    |
| 76970    | ♦     | 1N4003      | DO-41    | 200 PRV, 1A                          | .....                      | *      | .05    | .02    |
| 35991    | ♦     | 1N4004**    | DO-41    | 400 PRV, 1A                          | .....                      | *      | .05    | .02    |
| 879094   | ON    | MRA4004T3   | SMA      | 400 @ 1A                             | .....                      | *      | .09    | .05    |
| 76988    | ♦     | 1N4005      | DO-41    | 600 PRV, 1A                          | .....                      | *      | .05    | .03    |
| 76996    | ♦     | 1N4006      | DO-41    | 800 PRV, 1A                          | .....                      | *      | .05    | .02    |
| 36011    | ♦     | 1N4007*     | DO-41    | 1000 PRV, 1A                         | .....                      | *      | .05    | .02    |
| 36012    | ♦     | 1N4007      | DO-41    | 1000 PRV, 1A                         | .....                      | *      | .05    | .02    |
| 1537951  | DDI   | 1N4007-T    | DO-41    | 1000 V <sub>RRM</sub> , 1A           | .....                      | *      | .06    | .05    |
| 1304778  | ON    | 1N4933RLG   | DO-41    | 50 V <sub>RRM</sub> , fast recovery  | .....                      | *      | .05    | .04    |
| 36249    | ♦     | 1N5401      | DO-201AD | 100 PIV, 3A                          | .....                      | *      | .10    | .08    |
| 77083    | ♦     | 1N5402      | DO-27A   | 200 PRV, 3A                          | .....                      | *      | .10    | .08    |

\*10 pcs./\*\*100 pcs. in Diode/Rectifier cabinet kit, pg 23 Rectifiers continued on next page

\* AVT = Avago | BNS = Bourns | FSC = Fairchild | DDI = Diodes Inc. | GI = General Instru. | INR = International Rectifier | NXP = NXP/Philips | ON = ON Semi | ST = ST Micro | TAT = Taitron | TEC = Teccor | VSH = Vishay

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 197.





## Rectifiers (Continued)

★ Web Code: LBD

| Part No. | Mfr. | Product No.  | Pkg.     | Rating                              | * Order in multiples of 10 |       |       |       |
|----------|------|--------------|----------|-------------------------------------|----------------------------|-------|-------|-------|
|          |      |              |          |                                     | 1                          | 10    | 100   | 1000  |
| 36265    | ♦    | 1N5404*      | DO-27A   | 400 PRV, 3A                         | ...                        | \$.10 | \$.08 | \$.07 |
| 36273    | ♦    | 1N5408*      | DO-27A   | 1000 PRV, 3A                        | ...                        | .10   | .08   | .07   |
| 177949   | ♦    | 1N5817       | DO-204AL | 20 PIV, 1A                          | ...                        | .10   | .08   | .07   |
| 177957   | ♦    | 1N5818       | DO-204AL | 30 PIV, 1A                          | ...                        | .10   | .08   | .07   |
| 177965   | ♦    | 1N5819       | DO-204AL | 40 PIV, 1A                          | ...                        | .10   | .08   | .07   |
| 1538419  | DDI  | 1N5819HW-7-F | SOD-123  | 40 V <sub>RRM</sub> , 1A (Schottky) | .29                        | .25   | .22   | .19   |
| 177973   | ♦    | 1N5820       | DO-201AD | 20 PIV, 3A                          | ...                        | .15   | .12   | .10   |
| 177981   | ♦    | 1N5821       | DO-201AD | 30 PIV, 3A                          | ...                        | .15   | .12   | .10   |
| 177990   | ♦    | 1N5822       | DO-201AD | 40 PIV, 3A                          | .25                        | .22   | .15   | .13   |
| 743701   | ON   | 1N5822RLG    | DO-201AD | 40 PIV, 3A                          | .25                        | .22   | .19   | .17   |

\* 10 pcs. in Diode/Rectifier cabinet kit, below

## Bridge Rectifiers

★ Web Code: MBD

| Part No. | Mfr. | Product No. | Pkg.       | Rating                       | * Order in multiples of 10 |       |       |
|----------|------|-------------|------------|------------------------------|----------------------------|-------|-------|
|          |      |             |            |                              | 1                          | 10    | 100   |
| 1540421  | ♦    | HD04-T      | Mini DIP-4 | 400 V <sub>RRM</sub> , 0.8A  | ...                        | \$.15 | \$.12 |
| 178001   | ♦    | DF005M      | DF         | 50 V <sub>RRM</sub> , 1A     | .29                        | .25   | .22   |
| 103000   | ♦    | DF01M       | DF         | 100 V <sub>RRM</sub> , 1A    | .29                        | .25   | .22   |
| 103042   | ♦    | DF02M       | DF         | 200 V <sub>RRM</sub> , 1A    | .29                        | .25   | .22   |
| 102971   | ♦    | DF04M       | DF         | 400 V <sub>RRM</sub> , 1A    | .35                        | .29   | .25   |
| 103034   | ♦    | DF06M       | DF         | 600 V <sub>RRM</sub> , 1A    | .29                        | .25   | .22   |
| 256575   | ♦    | DF08M       | DF         | 800 V <sub>RRM</sub> , 1.5A  | .35                        | .29   | .25   |
| 103026   | ♦    | DF10M       | DF         | 1000 V <sub>RRM</sub> , 1A   | .29                        | .25   | .22   |
| 145429   | ♦    | KBP02M      | KBP        | 200 V <sub>RRM</sub> , 1.5A  | .39                        | .35   | .29   |
| 119562   | ♦    | KBP04M*     | KBP        | 400 V <sub>RRM</sub> , 1.5A  | .39                        | .35   | .29   |
| 279494   | ♦    | W005G       | WOG        | 50 V <sub>RRM</sub> , 1.5A   | .45                        | .35   | .25   |
| 103018   | ♦    | W02G        | WOG        | 200 V <sub>RRM</sub> , 1.5A  | .49                        | .45   | .39   |
| 102980   | ♦    | W04G        | WOG        | 400 V <sub>RRM</sub> , 1.5A  | .49                        | .45   | .39   |
| 179469   | ♦    | W08G        | WOG        | 800 V <sub>RRM</sub> , 1.5A  | .49                        | .45   | .39   |
| 279515   | ♦    | W10G        | WOG        | 1000 V <sub>RRM</sub> , 1.5A | .49                        | .45   | .39   |
| 178132   | ♦    | W01M        | WOM        | 100 V <sub>RRM</sub> , 1.5A  | .25                        | .22   | .19   |
| 178141   | ♦    | W02M        | WOM        | 200 V <sub>RRM</sub> , 1.5A  | .25                        | .22   | .19   |
| 178183   | TAT  | BR805D      | BR8D       | 50 PIV, 2A                   | .49                        | .45   | .39   |
| 178247   | TAT  | BR810D      | BR8D       | 1000 PIV, 2A                 | .49                        | .45   | .39   |
| 253260   | ♦    | 2KBP06M     | KBP        | 600 V <sub>RRM</sub> , 2A    | .45                        | .35   | .29   |
| 253286   | ♦    | 2KBP10M     | KBP        | 1000 V <sub>RRM</sub> , 2A   | .49                        | .39   | .35   |
| 299874   | ♦    | GBPC1206    | GBPC       | 600 V <sub>RRM</sub> , 12A   | 2.49                       | 2.25  | 1.95  |
| 299866   | ♦    | GBPC1206W   | GBPC-W     | 600 V <sub>RRM</sub> , 12A   | 1.75                       | 1.35  | .99   |
| 179477   | ♦    | GBPC25-01   | GBPC       | 100 V <sub>RRM</sub> , 25A   | 1.95                       | 1.49  | 1.25  |
| 179485   | ♦    | GBPC25-02   | GBPC       | 200 V <sub>RRM</sub> , 25A   | 1.95                       | 1.49  | 1.25  |
| 178280   | ♦    | MB254       | MB35       | 400 V <sub>RRM</sub> , 25A   | 2.49                       | 2.15  | 1.75  |
| 178431   | ♦    | MB358       | MB35       | 800 V <sub>RRM</sub> , 35A   | 2.95                       | 2.75  | 2.49  |
| 178335   | TAT  | TB252       | TB35       | 200 PIV, 25A                 | 1.95                       | 1.75  | 1.49  |
| 25574    | ♦    | MDA990-3    | 179-01     | 200 PIV, 30A                 | 3.75                       | 3.49  | 3.25  |
| 25591    | ♦    | MDA990-6    | 179-01     | 600 PIV, 30A                 | 3.95                       | 3.75  | 3.49  |
| 178503   | TAT  | TB3510      | TB35       | 1000 PIV, 35A                | 3.49                       | 3.25  | 2.95  |

\* 10 pcs. in Diode/Rectifier cabinet kit, below

† DF/KBP/WOG/WOM/179-01 – plastic case; GBPC/TB35 – plastic case, metal base; MB35 – metal case

## Diode/Rectifier Assortment Cabinet Kit

420 pcs. (15 types) Diodes, Zener Diodes, Switching and Silicon Rectifiers

Includes: 20 drawer component cabinet (319600), 20 clear plastic drawers (319601), 20 clear dividers (319611), pg 173 and 30 adhesive labels for drawers to identify parts in kit.

10 each: 1N270, 1N751A, 1N4001, 1N4007, 1N4150, 1N4733A, 1N4735A, 1N4742A, 1N5404, 1N5408, C106B1, KBP04M

100 each: 1N914, 1N4004, 1N4148

| Part No. | Description                   | Wt. (lbs.) | 1       | 5       |
|----------|-------------------------------|------------|---------|---------|
| 82587    | 420 pcs. (15 types) diode kit | 5.0        | \$39.95 | \$34.95 |
| 130366   | Refill for 82587 (420 pcs.)   | 0.3        | 29.95   | 26.95   |



## Silicon Controlled Rectifiers (SCRs)

★ Web Code: BAB

| Part No. | Mfr. | Product No. | Pkg.     | Rating                     | * Order in multiples of 10 |        |               |
|----------|------|-------------|----------|----------------------------|----------------------------|--------|---------------|
|          |      |             |          |                            | 1                          | 10     | 100           |
| 14859    | ♦    | C38M        | TO-65    | 600 PRV, 35A (2N3899)      | ...                        | \$6.95 | \$6.25 \$5.49 |
| 14736    | ♦    | C106B1*     | TO-202   | 200 PRV, 4A (2N6239)†      | .69                        | .59    | .49           |
| 14752    | ♦    | C122B       | TO-220   | 200 PRV, 8A                | 1.29                       | 1.19   | .99           |
| 14761    | ♦    | C122M       | TO-220   | 600 PRV, 8A                | 1.35                       | 1.25   | 1.05          |
| 160119   | ♦    | T106D1      | TO-202AB | 400 PRV, 4A                | .59                        | .49    | .45           |
| 119802   | ♦    | 2N5060      | TO-92    | 25 PRV, 0.8A               | ...                        | .12    | .10           |
| 211422   | ♦    | 2N5061      | TO-92    | 60 PRV, 0.8A               | ...                        | .12    | .10           |
| 160135   | TEC  | S6025L      | TO-220AB | 600 V <sub>DRM</sub> , 25A | 1.49                       | 1.39   | 1.29          |
| 140417   | ♦    | 2N6507      | TO-220AB | 400 PRV, 25A               | 1.19                       | 1.09   | .95           |
| 885654   | ON   | 2N6509      | TO-220AB | 800 V <sub>DRM</sub> , 25A | .99                        | .89    | .75           |

† Isolated \* 10 pcs. in Diode/Rectifier cabinet kit, below left

## Heat Sinks

★ Web Code: JAB



- Material: black anodized aluminum (except for P/N 107297 – light weight alum.)
- P/N 42622 can be mounted vertically with solderable mounting tabs

| Part No. | Mfr. | Product No.                  | Type       | Hole | Size (L" x W" x H") | 1     | 10    | 100   |
|----------|------|------------------------------|------------|------|---------------------|-------|-------|-------|
| 2077335  | AVD  | 501200B00                    | DIP-14/16  | 0    | 0.73 x 0.25 x 0.19  | \$.49 | \$.45 | \$.39 |
| 151547   | JVP  | 635-125B2                    | TO-3       | 4    | 1.83 x 1.40 x 1.25  | 1.49  | 1.39  | 1.25  |
| 189835   | AVD  | 501303B00000G                | TO-3       | 4    | 1.90 x 1.40 x 0.50  | .89   | .79   | .69   |
| 16513    | JVP  | DUDE4                        | TO-3       | 4    | 4.75 x 1.50 x 1.25  | 3.75  | 3.25  | 2.75  |
| 326757   | JVP  | 529801B02500                 | TO-218     | 3    | 1.64 x 1.00 x 1.50  | 1.19  | .99   | .85   |
| 696626   | AVD  | 530002B02500                 | TO-220     | 1    | 2.52 x 1.65 x 1.00  | 1.95  | 1.75  | 1.39  |
| 696714   | AVD  | 577002B00000G                | TO-220     | 1    | 0.52 x 0.25 x 0.75  | .29   | .25   | .22   |
| 158051   | AVD  | 577102B00000G                | TO-220     | 1    | 0.52 x 0.36 x 0.75  | .29   | .25   | .22   |
| 696722   | AVD  | 581002B02500G                | TO-220     | 1    | 0.64 x 0.64 x 1.00  | 1.49  | 1.39  | 1.29  |
| 326596   | ♦    | 507302B00000                 | TO-220     | 1    | 0.75 x 0.38 x 0.75  | .29   | .25   | .22   |
| 70658    | JVP  | THM6073                      | TO-220     | 1    | 0.75 x 0.36 x 0.75  | .29   | .25   | .22   |
| 2077327  | COM  | 8314021B00 (TO-262)          | TO-220     | 0    | 0.75 x 0.50 x 0.50  | .39   | .29   | .25   |
| 40504    | WKF  | 291-H-36AB                   | TO-220     | 1    | 1.00 x 0.36 x 0.86  | .85   | .75   | .65   |
| 107297   | ♦    | PSC2-U (cup-style)           | TO-220     | 0    | 1.00 x 0.42 x 0.80  | .49   | .39   | .25   |
| 42622    | AVD  | 563002B00000                 | TO-220     | 1    | 1.18 x 1.00 x 0.50  | .35   | .29   | .25   |
| 129242   | JVP  | THM6106                      | TO-220     | 1    | 1.18 x 1.00 x 0.50  | .65   | .55   | .45   |
| 70915    | JVP  | THM6106                      | TO-220     | 2    | 1.18 x 1.00 x 0.50  | .69   | .59   | .49   |
| 326693   | JVP  | 531002B05200                 | TO-220     | 2    | 1.38 x 0.50 x 1.00  | .89   | .79   | .69   |
| 326713   | JVP  | 531102B02500                 | TO-220     | 3    | 1.38 x 0.50 x 1.50  | .99   | .79   | .65   |
| 326765   | JVP  | 531302B02500                 | TO-220/202 | 3    | 2.50 x 1.38 x 0.50  | 1.25  | 1.09  | .89   |
| 2033463  | AVD  | 573300D00010G                | TO-263     | 0    | 1.03 x 0.50 x 0.40  | .85   | .75   | .65   |
| 1115310  | AVD  | 576802B03100G                | TO-220     | 0    | 0.75 x 0.50 x 0.52  | .45   | .39   | .35   |
| 1115643  | AVD  | 577202B00000G                | TO-220     | 1    | 0.52 x 0.50 x 0.75  | .29   | .25   | .22   |
| 1116460  | AVD  | 7128DG                       | TO-220     | 0    | 0.86 x 0.38 x 1.18  | .89   | .79   | .69   |
| 326684   | AVD  | 566010B03400                 | TO-218     | 0    | 1.00 x 0.50 x 1.22  | .89   | .79   | .69   |
| 891464   | AVD  | 593002B03400G                | TO-220     | 1    | 1.00 x 0.50 x 1.18  | .79   | .69   | .59   |
| 2039099  | AVD  | 7023B-MTG                    | TO-220     | 3    | 1.90 x 1.95 x 0.95  | 1.35  | 1.15  | 1.05  |
| 2028162  | AVD  | 7173DG                       | TO-220     | 1    | 0.75 x 0.75 x 0.38  | .49   | .45   | .39   |
| 696765   | AVD  | 7109DG                       | TO-263     | 0    | 0.76 x 1.00 x 0.45  | 1.25  | 1.05  | .95   |
| 1115432  | AVD  | 576802B03900G                | TO-220     | 0    | 0.50 x 0.50 x 0.75  | .49   | .45   | .39   |
| 2033009  | AVD  | 7136DG                       | TO-220     | 0    | 0.52 x 0.52 x 0.85  | .75   | .65   | .59   |
| 129226   | JVP  | For 486 CPUs (adhesive back) |            | 0    | 1.58 x 1.58 x 0.39  | 2.95  | 2.49  | 2.25  |

\* AVD = Aavid Thermalloy | COM = Comair Rotron | DDI = Diodes Inc. | JVP = Jameco ValuePro | ON = On Semiconductor | TAT = Taitron | TEC = Teccor | WKF = Wakefield | ♦ Varies

★ For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

# Heat Sink Mounting Kits, Compounds & Accessories

3 LEVELS OF SAVINGS  
NAME BRANDS HOUSE BRANDS FACTORY OVERRUN



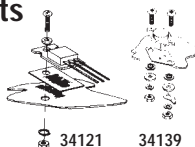
## Heat Sink Accessories

| Part No. | Mfr. Part No. | Description                                   | 1      | 10     | 100    |
|----------|---------------|---|--------|--------|--------|
| 1582559  | 173-7-220P    | DeltaPAD™ insulator for TO-220 .....          | \$ .39 | \$ .35 | \$ .25 |
| 1582575  | 175-6-240-P   | KAPTON™ reinforced insulator for TO-220 ..... | .35    | .29    | .25    |

## Heat Sink Mounting Kits

- TO-3 and TO-220 heat sink insulator assemblies
- 10 kits per pack

| Part No. | Type   | Description    | 1      | 10     | 100    |
|----------|--------|----------------|--------|--------|--------|
| 34121    | TO-220 | 5 pcs per kit  | \$3.95 | \$3.59 | \$3.25 |
| 34139    | TO-3   | 12 pcs per kit | 3.95   | 3.59   | 3.25   |



More online at [www.Jameco.com](http://www.Jameco.com)

## Heat Sink Compounds

\*Web Code: YBA

| Part No. | *Mfr. | Product No. | Description                                   | 1       | 10      | 100   |
|----------|-------|-------------|---|---------|---------|-------|
| 1582541  | WKF   | 120-8       | Silicon oil-based compound 8 oz. jar          | \$23.95 | \$21.95 | —     |
| 169252   | TSP   | 1978DP      | Silicon free compound 4 oz. tube              | 23.95   | 21.95   | 20.95 |
| 615304   | GCE   | 10-8106     | Zinc-oxide filled silicon compound 1 lb. can  | 29.95   | 26.95   | 23.95 |
| 615312   | GCE   | 10-8108     | Zinc-oxide filled silicon compound 6.5g tube  | 2.95    | 2.65    | 2.39  |
| 615321   | GCE   | 10-8109     | Zinc-oxide filled silicon compound 1 oz. tube | 7.95    | 7.25    | 6.55  |
| 167249   | AVD   | THM250      | Silicon based compound 2 oz. tube             | 8.95    | 7.95    | 6.95  |
| 236823   | JVP   | 54114       | Silicon based compound 1 oz. tube             | 4.95    | 4.49    | 3.95  |

# Optoisolators & Optocouplers

## Optoisolators

\*Web Code: CAG

|          |       |             |        |  | * Order in multiples of 10 |       |       |
|----------|-------|-------------|--------|--|----------------------------|-------|-------|
| Part No. | *Mfr. | Product No. | Pkg.   | Description                              | 1                          | 10    | 100   |
| 40985    | ◆     | 4N25        | DIP-6  | NPN phototransistor output .....         | \$.25                      | \$.22 | \$.19 |
| 41005    | ◆     | 4N26        | DIP-6  | NPN phototransistor output .....         | .25                        | .22   | .19   |
| 41013    | ◆     | 4N28        | DIP-6  | NPN phototransistor output .....         | .25                        | .22   | .19   |
| 41021    | ◆     | 4N32        | DIP-6  | NPN photodarlington output .....         | .25                        | .22   | .19   |
| 41030    | ◆     | 4N33        | DIP-6  | NPN photodarlington output .....         | .25                        | .22   | .19   |
| 41056    | ◆     | 4N35        | DIP-6  | NPN phototransistor output .....         | .25                        | .22   | .19   |
| 671832   | ◆     | 4N35S       | SOIC-6 | General purpose phototransistor .....    | .25                        | .22   | .19   |
| 138069   | ◆     | ISP817-3    | DIP-4  | Low power transistor output .....        | .39                        | .29   | .25   |
| 2099948  | OPT   | OPI2151     | DIP-6  | Single NPN phototransistor .....         | .29                        | .25   | .22   |
| 320653   | ◆     | PS2501-1    | DIP-4  | Single NPN phototransistor output ..     | .29                        | .25   | .22   |
| 320661   | ◆     | PS2501-2    | DIP-8  | Dual NPN phototransistor output .....    | .89                        | .79   | .69   |
| 160338   | ◆     | PS2501-4    | DIP-16 | Quad NPN phototransistor output ..       | 1.49                       | 1.35  | 1.19  |
| 320688   | ◆     | PS2502-1    | DIP-4  | Darlington photocoupler .....            | .55                        | .45   | .39   |
| 320696   | ◆     | PS2502-2    | DIP-8  | Dual NPN photodarlington output .....    | 1.45                       | 1.29  | 1.15  |
| 160362   | ◆     | PS2502-4    | DIP-16 | Quad NPN photodarlington output .....    | 2.25                       | 1.95  | 1.75  |
| 320725   | ◆     | PS2505-4    | DIP-16 | Quad NPN phototransistor output .....    | 2.25                       | 1.95  | 1.25  |
| 320805   | ◆     | PS2532-4    | DIP-16 | Quad hi collector to emitter voltage ..  | 2.49                       | 2.25  | 1.95  |
| 26278    | ◆     | MOC3010     | DIP-6  | Bilateral sw. non-zero crossing triac .. | .39                        | .35   | .29   |
| 698912   | FSC   | MOC3010M    | DIP-6  | Random phase, triac driver output ...    | .45                        | .39   | .35   |
| 95020    | ◆     | MOC3011     | DIP-6  | Random phase, triac driver output .....  | .45                        | .39   | .35   |
| 671859   | ◆     | MOC3012S    | SOIC-6 | Random phase, triac driver output .....  | .29                        | .25   | .19   |
| 277780   | ◆     | MOC3020     | DIP-6  | Bilateral sw. non-zero crossing triac .. | .49                        | .45   | .39   |
| 95038    | ◆     | MOC3021     | DIP-6  | Random phase, triac driver output .....  | .55                        | .49   | .45   |
| 277819   | ◆     | MOC3023     | DIP-6  | Random phase, triac driver output .....  | .49                        | .45   | .39   |
| 113953   | ◆     | MOC3032     | DIP-6  | Zero-crossing, triac driver output ..... | .79                        | .69   | .59   |
| 277827   | ◆     | MOC3033     | DIP-6  | Zero-crossing, triac driver output ..... | .69                        | .59   | .49   |
| 277835   | ◆     | MOC3041     | DIP-6  | Zero-crossing, triac driver output ..... | .79                        | .69   | .59   |
| 277843   | ◆     | MOC3043     | DIP-6  | Zero-crossing, triac driver output ..... | .79                        | .69   | .59   |
| 277894   | ◆     | MOC3052     | DIP-6  | Random phase, triac driver .....         | .69                        | .59   | .45   |
| 133874   | ◆     | MOC3063     | DIP-6  | Zero-crossing, triac driver output ..... | .75                        | .65   | .55   |
| 320629   | ◆     | MOC3082     | DIP-6  | Zero-crossing, triac driver output ..... | .79                        | .69   | .55   |
| 320611   | ◆     | MOC3083     | DIP-6  | Zero-crossing, triac driver output ..... | .59                        | .45   | .35   |
| 2006414  | LTO   | LTR-5986D   | SIP-3  | NPN phototransistor/detector .....       | .25                        | .22   | .15   |
| 273607   | NTE   | NTE3221     | DIP-16 | 4-channel, NPN transistor output.....    | 3.25                       | 2.95  | 2.75  |

♦ Blue Part No. = Limited Quantity Available

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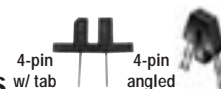
## Optocouplers

\*Web Code: NAK

| Part No. | *Mfr. | Product No.    | Pkg.   | Description                                 | 1      | 10     | 100    |
|----------|-------|----------------|--------|---|--------|--------|--------|
| 277510   | ♦     | 6N135          | DIP-8  | Hi-speed photodetector transistor           | \$ .75 | \$ .65 | \$ .55 |
| 42471    | ♦     | 6N136          | DIP-8  | Hi-speed phototransistor output             | .65    | .55    | .45    |
| 113911   | ♦     | 6N137          | DIP-8  | Hi CMR, hi-speed logic gate output          | .69    | .59    | .49    |
| 42489    | ♦     | 6N138          | DIP-8  | Hi-speed photodarlington output             | .69    | .59    | .49    |
| 113929   | ♦     | 6N139          | DIP-8  | Hi-speed photodarlington output             | .89    | .79    | .69    |
| 18825    | ♦     | H11AA1         | DIP-6  | AC input/phototransistor                    | .59    | .49    | .45    |
| 320434   | ♦     | H11AA2         | DIP-6  | AC input phototransistor optocoupler        | .59    | .49    | .35    |
| 320451   | ♦     | H11AA4         | DIP-6  | AC input phototransistor optocoupler        | .69    | .59    | .49    |
| 938365   | FSC   | H11AA4SVM      | DIP-6  | AC input phototransistor (w/ SMD)           | .39    | .35    | .25    |
| 113988   | ♦     | H11L1          | DIP-6  | µPROC compatible Schmitt trigger            | .79    | .69    | .59    |
| 871341   | FSC   | H11L1M         | DIP-6  | Logic output                                | .85    | .75    | .65    |
| 1549441  | AVT   | HCPL-060L-000E | SOIC-8 | Hi-speed LVTTTL compatible 3.3V opto        | 1.75   | 1.35   | 1.09   |
| 1549644  | AVT   | HCPL-063N      | SOIC-8 | Dual ch. high CMR, 10MBd, HCMOS compat.     | 5.95   | 5.49   | 4.49   |
| 1549530  | AVT   | HCPL-0630-000E | SOIC-8 | Dual ch. high CMR, hi-spd TTL compat. opto. | 3.75   | 3.05   | 2.75   |
| 1549732  | AVT   | HCPL-0710      | SOIC-8 | 40ns propagation delay, CMOS                | 3.49   | 2.95   | 2.75   |
| 1549741  | AVT   | HCPL-0710-000E | SOIC-8 | 40ns propagation delay, CMOS                | 3.85   | 3.45   | 3.15   |
| 1549839  | AVT   | HCPL-0731      | SOIC-8 | Dual ch. low input current, high gain       | 2.75   | 2.49   | 2.25   |
| 1550047  | AVT   | HCPL-2232      | DIP-8  | Dual ch. very high CMR, wide Vcc logic gate | 6.95   | 6.69   | 6.29   |
| 785821   | FSC   | HCPL2631S      | SOIC-8 | Dual ch. high speed 10mbit/s logic gate     | 1.49   | 1.25   | .95    |
| 1584221  | AVT   | HCPL-7710-000E | DIP-8  | 40ns propagation delay, CMOS                | 2.95   | 2.75   | 2.49   |
| 1584239  | AVT   | HCPL-7710-300E | DIP-8  | 40ns propagation delay, CMOS                | 2.95   | 2.75   | 2.49   |
| 1584247  | AVT   | HCPL-7800-300  | SOIC-8 | Isolation amplifier optocoupler             | 5.95   | 5.25   | 4.75   |
| 1584255  | AVT   | HCPL-7800A#300 | DIP-8  | Isolation amplifier optocoupler             | 8.95   | 6.95   | 5.95   |
| 24918    | ♦     | MCT6           | DIP-8  | High density NPN phototransistor            | .59    | .49    | .45    |
| 672317   | ♦     | MCT61          | DIP-8  | Dual channel NPN phototransistor            | .39    | .29    | .25    |
| 672325   | ♦     | MCT62          | DIP-8  | Dual channel NPN phototransistor            | .59    | .49    | .39    |
| 2006385  | LTO   | LTV-814H       | DIP-4  | Phototransistor output, AC input            | .25    | .22    | .19    |
| 1996330  | LTO   | LTV-824S       | SOIC-8 | Opto phototransistor                        | .39    | .35    | .25    |
| 790735   | LTO   | LTV-824        | DIP-8  | Opto phototransistor                        | .55    | .45    | .39    |
| 878286   | LTO   | LTV-847        | DIP-16 | Quad ch. phototransistor output             | .79    | .69    | .59    |
| 1583156  | CLA   | PD2401         | DIP-16 | AC solid st. sw. w/ dual pwr SCR output     | 5.75   | 5.25   | 4.49   |
| 1583199  | CLA   | TS117S         | SOIC-8 | 1-Form-A relay optocoupler                  | 1.75   | 1.45   | 1.25   |
| 1583228  | AVT   | 5962-8876901PC | DIP-8  | 2-ch., low If, wide Vcc, logic gate         | 79.95  | 69.95  | 59.95  |

♦ Blue Part No. = Limited Quantity Available

## Slotted Optical Switches



\*Web Code: XAP

| Part No. | *Mfr. | Product No. | Pkg.         | Description               | 1      | 10     | 100    |
|----------|-------|-------------|--------------|---------------------------|--------|--------|--------|
| 320901   | ♦     | H21A3       | 4-pin w/ tab | Single channel, 20mA (Ic) | \$ .99 | \$ .79 | \$ .69 |
| 2078282  | SIE   | IRLA075     | 4-pin w/ tab | Single channel, 50mA (Ic) | .69    | .59    | .39    |
| 1069835  | FSC   | QRB1114     | 4-pin angled | Infrared phototransistor  | .99    | .89    | .69    |

\* AVD = Aavid Thermalloy | AVT = Avago | CLA = Clare | FSC = Fairchild | GCE = GC Electronics | JVP = ValuePro | LTO = Lite On | NTE = NTE Elec. | OPT = Optek | SIE = Siemens | TSP = Tech Spray | WKF = Wakefield

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 197.



## 1.90mm (.075") Subminiature LEDs

Flat-Top or Dome Style



Fig. 1



\* Web Code: SML

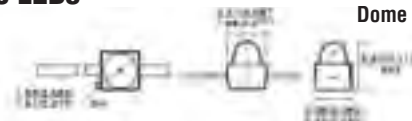
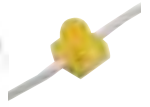
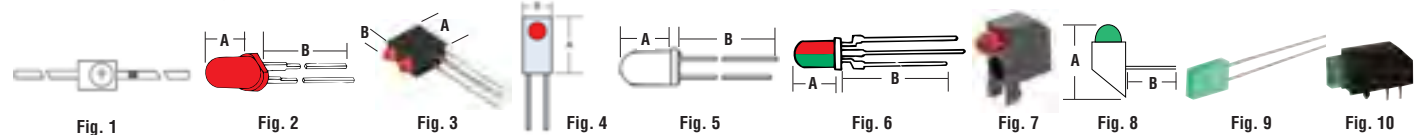


Fig. 2



| Part No. | Mfr. Part No.   | *Mfr. | Fig. | Emitting Color | Lens/Feature Description               | Typical Vf @ If | Iv Typical mcd @ mA | Wavelength (nm) | Viewing Angle° | Pricing |       |       |       |
|----------|-----------------|-------|------|----------------|--|-----------------|---------------------|-----------------|----------------|---------|-------|-------|-------|
|          |                 |       |      |                |  |                 |                     |                 |                | 1       | 10    | 100   | 500   |
| 1555690  | HLMP-P205-F0011 | AVT   | 1    | Hi-eff. Red    | Non-diffused, untinted                 | 1.8 @ 10        | 8 @ 10              | 635             | 125            | \$.39   | \$.35 | \$.29 | \$.25 |
| 1555817  | HLMT-PH00-P0011 | AVT   | 1    | Red Orange     | Non-diffused, untinted                 | 2 @ 20          | 120 @ 20            | 621             | 125            | .39     | .35   | .29   | .25   |
| 1555711  | HLMP-P505-G0011 | AVT   | 1    | Hi-perf. Green | Non-diffused, untinted                 | 2.1 @ 10        | 6.3 @ 10            | 565             | 125            | .39     | .35   | .29   | .25   |
| 1584976  | HLMP-Q156-H0021 | AVT   | 2    | Red            | Non-diffused, untinted                 | 1.6 @ 0.5       | 7 @ 0.5             | 654             | 15             | .39     | .35   | .29   | .25   |
| 1584968  | HLMP-Q106-R0011 | AVT   | 2    | Red            | Non-diffused, untinted                 | 1.9 @ 20        | 400 @ 10            | 654             | 15             | .39     | .35   | .29   | .25   |
| 1555219  | HLMP-7000       | AVT   | 2    | Hi-eff. Red    | Diffused, tinted                       | 1.8 @ 10        | 1 @ 2               | 635             | 90             | .39     | .35   | .29   | .25   |
| 1584802  | HLMP-7019       | AVT   | 2    | Yellow         | Diffused, tinted                       | 2 @ 10          | 0.6 @ 2             | 583             | 90             | .35     | .29   | .25   | .19   |
| 334406   | LY9033          | JVP   | 2    | Yellow         | Water clear                            | 1.7 @ 20        | 30 @ 10             | 585             | 20             | .29     | .25   | .19   | .15   |
| 1555059  | HLMP-6500-F0010 | AVT   | 2    | Hi-perf. Green | Diffused, tinted (right angle housing) | 2.1 @ 10        | 7 @ 10              | 565             | 90             | .39     | .35   | .29   | .25   |
| 1555104  | HLMP-6505-L0021 | AVT   | 2    | Hi-perf. Green | Non-diffused, untinted                 | 2.1 @ 10        | 40 @ 10             | 565             | 28             | .35     | .29   | .25   | .19   |
| 1584790  | HLMP-6820       | AVT   | 2    | Hi-perf. Green | Diffused, with resistor                | 5 @ 4           | 2 @ 5               | 565             | 90             | .45     | .39   | .35   | .29   |

\* Blue Part No. = Limited Quantity Available



## Standard-Output LEDs

See page 30 for LED Mounting Hardware

\* Web Code: FAF

\* Order in multiples of 10

| Part No. | Product No.     | *Mfr. | Fig. | Emitting Color | Lens/Feature Description                      | LED Size | Diameter inch/mm | Dimensions |       | Lead Spacing | Typical Vf | Typical mcd | Wavelength nm | Viewing Angle° | Pricing |       |       |       |
|----------|-----------------|-------|------|----------------|---|----------|------------------|------------|-------|--------------|------------|-------------|---------------|----------------|---------|-------|-------|-------|
|          |                 |       |      |                |   |          |                  | A"         | B"    |              |            |             |               |                | 1       | 10    | 100   | 1000  |
| 26745    | MCDL-170EC      | MCD   | 1    | Red            | Water clear                                   | T 3/4    | 0.065/1.7        | 0.06       | 0.35  | —            | 2.0        | 7           | 635           | 100            | \$.39   | \$.35 | \$.29 | \$.25 |
| 1869437  | MPG22625S       | STA   | 1    | Green          | Green diffused                                | T 3/4    | 0.065/1.7        | 0.06       | 0.35  | —            | 2.1        | 16          | 567           | 60             | .39     | .35   | .29   | .25   |
| 202471   | MVL-301HR       | UNI   | 2    | Red            | Red diffused                                  | T1       | 0.119/3          | 0.14       | 1.12  | 0.10         | 2.0        | 9.0         | 640           | 40             | *       | .10   | .08   | .06   |
| 253278   | HLMP-1301       | FSC   | 2    | Red            | Red diffused                                  | T1       | 0.119/3          | 0.19       | 1.00  | 0.10         | 1.9        | 5.4         | 635           | 60             | *       | .11   | .09   | .07   |
| 152785   | LT0341R-41      | LED   | 2    | Red            | Red diffused                                  | T1       | 0.119/3          | 0.20       | 0.89  | 0.10         | 2.1        | 15.5        | 635           | 56             | *       | .12   | .10   | .08   |
| 333851   | UT6371-41-M1    | JVP   | 2    | Red            | Red diffused                                  | T1       | 0.119/3          | 0.17       | 0.98  | 0.10         | 1.7        | 63          | 660           | 47             | *       | .12   | .10   | .08   |
| 94529    | LH2040          | JVP   | 2    | Red            | Red diffused (XC209RB)                        | T1       | 0.119/3          | 0.18       | 1.04  | 0.07         | 2.3        | 4.5         | 697           | 36             | *       | .12   | .10   | .08   |
| 136282   | LA44B/21        | JVP   | 3    | Red            | Red diffused (right angle) .60" LDS           | T1       | 0.119/3          | 0.38       | 0.17  | 0.10         | 1.7        | 12          | 635           | 50             | .35     | .29   | .25   | .19   |
| 1554099  | HLMP-1700-B0002 | AVT   | 2    | Red            | Red tinted/diffused                           | T1       | 0.119/3          | 0.19       | 0.95  | 0.10         | 1.7        | 0.8         | 635           | 50             | .25     | .22   | .19   | .15   |
| 1554110  | HLMP-1700-B00A2 | AVT   | 4    | Red            | Red tinted/diffused (right angle)             | T1       | 0.119/3          | 0.19       | 0.95  | 0.10         | 1.7        | 0.8         | 635           | 50             | .49     | .45   | .39   | .35   |
| 152751   | LT0344R-41      | LED   | 2    | Red            | Red clear                                     | T1       | 0.119/3          | 0.20       | 0.89  | 0.10         | 2.1        | 52.9        | 635           | 36             | *       | .12   | .10   | .08   |
| 2081991  | XLUR40W         | ◆     | 5    | Red            | Water clear                                   | T1       | 0.119/3          | 0.197      | 1.063 | 0.10         | 1.9        | 59          | 627           | 50             | *       | .10   | .08   | .06   |
| 333171   | HLMP-K155-JV    | JVP   | 5    | Red            | Red clear                                     | T1       | 0.119/3          | 0.19       | 1.04  | 0.10         | 1.6        | 3.0         | 660           | 45             | *       | .12   | .10   | .08   |
| 333260   | LHR2643         | JVP   | 2    | Red            | Water clear                                   | T1       | 0.119/3          | 0.13       | 0.98  | 0.10         | 1.5        | 300         | 660           | 40             | *       | .12   | .10   | .08   |
| 114673   | LH2043          | JVP   | 2    | Red            | Water clear (BR209)                           | T1       | 0.119/3          | 0.14       | 0.98  | 0.07         | 2.3        | 12          | 697           | 30             | *       | .12   | .10   | .08   |
| 206498   | LHR2041         | JVP   | 2    | Red            | Red transparent                               | T1       | 0.119/3          | 0.17       | 0.69  | 0.08         | 2.0        | 350         | 660           | 30             | *       | .15   | .12   | .10   |
| 697565   | LTL-4211N       | LTO   | 2    | Bright Red     | Red diffused                                  | T1       | 0.118/3          | 0.175      | 1.00  | 0.10         | 2.1        | 4.4         | 697           | 60             | *       | .12   | .10   | .08   |
| 697590   | LTL-4221N       | LTO   | 2    | Hi-eff Red     | Red diffused                                  | T1       | 0.118/3          | 0.175      | 1.00  | 0.10         | 2.0        | 8.7         | 635           | 60             | *       | .10   | .08   | .06   |
| 2006713  | LTL-161CE       | LTO   | 2    | Hi-eff Red     | Red diffused, flanged                         | T1       | 0.118/3          | 0.21       | 1.07  | 0.10         | 2.0        | 12.6        | 621           | 60             | *       | .12   | .10   | .08   |
| 2081932  | BVL-300ESD      | ◆     | 5    | OrangeRed      | Red diffused                                  | T1       | 0.119/3          | 0.17       | 1.00  | 0.10         | 2.1        | 18          | 622           | 45             | *       | .09   | .06   | .05   |
| 94553    | LHG2062         | JVP   | 2    | Red/Green      | White diffused bi-color/bi-state <sup>1</sup> | T1       | 0.119/3          | 0.18       | 1.06  | 0.08         | 2.3        | 3 & 15      | 697/565       | 36             | *       | .19   | .15   | .12   |
| 1766366  | 4301F1/5        | CML   | 5    | Red/Green      | White diffused bi-color                       | T1       | 0.119/3          | 0.175      | 1.00  | 0.10         | 2.1        | 13/4        | 660/565       | 60             | .59     | .55   | .49   | .45   |
| 156946   | LT0362-25-D61   | LED   | 6    | Red/Green      | White diffused bi-color/tri-state             | T1       | 0.119/3          | 0.16       | 0.87  | 0.08         | 2.1        | 2.7/13.3    | 700/567       | 50             | .39     | .35   | .29   | .25   |
| 235424   | LA45B/21        | JVP   | 3    | Red/Red        | Red diffused (right angle)                    | T1       | 0.119/3          | 0.40       | 0.18  | 0.10         | 1.7        | 12          | 630           | 50             | .35     | .29   | .25   | .19   |
| 235416   | LA45B/2G        | JVP   | 7    | Green/Green    | Green diffused (dual)                         | T1       | 0.119/3          | 0.40       | 0.18  | 0.10         | 1.7        | 15          | 565           | 50             | .35     | .29   | .25   | .19   |
| 156937   | LT0331-41       | LED   | 2    | Yellow         | Yellow diffused                               | T1       | 0.119/3          | 0.20       | 0.95  | 0.10         | 2.1        | 11          | 585           | 56             | *       | .12   | .10   | .08   |
| 333219   | LY12340         | JVP   | 2    | Yellow         | Yellow diffused                               | T1       | 0.119/3          | 0.13       | 0.98  | 0.10         | 1.7        | 6.5         | 585           | 112            | *       | .12   | .10   | .08   |
| 697688   | LTL-4251N       | LTO   | 5    | Yellow         | Yellow diffused                               | T1       | 0.118/3          | 0.175      | 1.00  | 0.10         | 2.1        | 5.6         | 585           | 60             | *       | .12   | .10   | .08   |
| 202489   | MVL-301Y        | UNI   | 5    | Yellow         | Yellow diffused                               | T1       | 0.118/3          | 0.20       | 1.10  | 0.10         | 2.1        | 9.0         | 585           | 40             | *       | .12   | .10   | .08   |
| 34657    | LY2040          | JVP   | 2    | Yellow         | Yellow diffused (XC209Y)                      | T1       | 0.119/3          | 0.16       | 0.68  | 0.08         | 2.3        | 15          | 585           | 36             | *       | .12   | .10   | .08   |
| 334211   | LA16BY          | JVP   | 4    | Yellow         | Yellow diffused (right angle)                 | T1       | 0.119/3          | 0.29       | 0.18  | 0.10         | 1.7        | 12          | 585           | 50             | *       | .19   | .15   | .12   |
| 2006721  | LTL-14CDJLDL    | LTO   | 2    | Yellow/Green   | White diffused bi-color, flanged              | T1       | 0.119/3          | 0.19       | 1.35  | 0.10         | 2.1        | 8.7/12.6    | 585/565       | 80             | *       | .19   | .15   | .12   |
| 2006705  | LTL-1CHYE       | LTO   | 2    | Yellow         | Water clear, flanged                          | T1       | 0.119/3          | 0.21       | 1.07  | 0.10         | 2.1        | 40          | 585           | 45             | *       | .08   | .06   | .045  |
| 2082003  | XLUY40W         | ◆     | 5    | Yellow         | Water clear                                   | T1       | 0.119/3          | 0.197      | 1.063 | 0.10         | 1.95       | 19          | 590           | 50             | *       | .10   | .08   | .06   |
| 206480   | LVY2041         | JVP   | 2    | Yellow         | Yellow transparent                            | T1       | 0.119/3          | 0.17       | 0.69  | 0.08         | 2.3        | 450         | 595           | 30             | *       | .12   | .10   | .08   |

\* 10 pcs./\*\* 100 pcs. in LEDs & LED Mounting Hardware cabinet kit, pg 30 <sup>1</sup> Reverse polarity to change color

Standard Output LEDs continued on next page

\* AVT = Avago | CML = CML Innovative | FSC = Fairchild Semi | JVP = Jameco ValuePro | LED = Ledtech | LTO = Lite On | MCD = MCD Electronics | STA = Stanley | UNI = Unity Opto | ◆ Varies

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

# Standard-Output LEDs

| 3 LEVELS OF SAVINGS |              |                 |
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## Standard-Output LEDs (Continued)

Figure images on previous page

★ Web Code: FAF

\* Order in multiples of 10

| Part No. | Product No.      | Mfr. | Fig. | Emitting Color | Lens/Feature Description             | LED Size | Diameter inch/mm | Dimensions |       | Lead Spacing | Typical Vf | Typical mcd | Wavelength nm | Viewing Angle* | Pricing |        |        |        |
|----------|------------------|------|------|----------------|--------------------------------------|----------|------------------|------------|-------|--------------|------------|-------------|---------------|----------------|---------|--------|--------|--------|
|          |                  |      |      |                |                                      |          |                  | A"         | B"    |              |            |             |               |                | 1       | 10     | 100    | 1000   |
| 2006676  | LTL-42DIN/HDPL   | LTO  | 3    | Green/Yellow   | Gr/yel diffused (rt. angle) .13" LDS | T1       | 0.119/3          | 0.38       | 0.17  | 0.10         | 2.1        | 12/6        | 565/585       | 60             | *       | \$ .15 | \$ .12 | \$ .10 |
| 333201   | LG12340          | JVP  | 2    | Green          | Green diffused                       | T1       | 0.119/3          | 0.13       | 0.98  | 0.10         | 1.7        | 9.6         | 565           | 112            | *       | .12    | .10    | .08    |
| 253631   | HLMP-1503        | FSC  | 2    | Green          | Green diffused                       | T1       | 0.119/3          | 0.19       | 1.00  | 0.10         | 2.1        | 1.0         | 565           | 60             | *       | .12    | .10    | .08    |
| 156930   | LT0321-41-HE     | LED  | 2    | Green          | Green diffused                       | T1       | 0.118/3          | 0.16       | 0.88  | 0.10         | 2.1        | 32          | 567           | 56             | *       | .15    | .12    | .10    |
| 211086   | LTL-4231N-022    | LTO  | 5    | Green          | Green diffused                       | T1       | 0.119/3          | 0.13       | 1.10  | 0.10         | 2.1        | 12.6        | 565           | 40             | *       | .10    | .08    | .06    |
| 1956602  | LTL4231N         | LTO  | 2    | Green          | Green diffused                       | T1       | 0.118/3          | 0.175      | 1.00  | 0.10         | 2.1        | 12.6        | 565           | 60             | *       | .10    | .08    | .06    |
| 697637   | LTL-4231N        | LTO  | 5    | Green          | Green diffused                       | T1       | 0.118/3          | 0.175      | 1.00  | 0.10         | 2.1        | 12.6        | 565           | 60             | *       | .12    | .10    | .08    |
| 34606    | LSG2040          | JVP  | 2    | Green          | Green diffused (XC209G)              | T1       | 0.119/3          | 0.13       | 1.05  | 0.08         | 2.2        | 15          | 560           | 50             | *       | .15    | .12    | .10    |
| 136274   | LA44B/2G         | JVP  | 3    | Green          | Green diffused (rt. angle) .60" LDS  | T1       | 0.119/3          | 0.38       | 0.17  | 0.10         | 2.3        | 15          | 565           | 50             | *       | .39    | .35    | .25    |
| 1554144  | HLMP-1790-A0002  | AVT  | 2    | Green          | Green tinted/diffused                | T1       | 0.119/3          | 0.19       | 0.95  | 0.10         | 1.9        | 2.3         | 565           | 50             | *       | .29    | .25    | .19    |
| 175679   | LVG2041          | JVP  | 2    | Green          | Green transparent                    | T1       | 0.119/3          | 0.17       | 0.69  | 0.08         | 2.2        | 129         | 565           | 30             | *       | .15    | .12    | .10    |
| 253665   | HLMP-1540        | FSC  | 2    | Green          | Water clear                          | T1       | 0.119/3          | 0.19       | 1.00  | 0.10         | 45         | 2.2         | 565           | 45             | *       | .12    | .10    | .08    |
| 2081983  | XLUG40W          | +    | 2    | Green          | Water clear                          | T1       | 0.119/3          | 0.197      | 0.63  | 0.10         | 2.0        | 69          | 565           | 50             | *       | .10    | .08    | .06    |
| 333315   | MV7441-JV        | LIG  | 2    | Green          | Water clear                          | T1       | 0.119/3          | 0.13       | 0.98  | 0.10         | 1.7        | 120         | 565           | 40             | *       | .12    | .10    | .08    |
| 114681   | LVG2043          | JVP  | 2    | Green          | Water clear (BG209)                  | T1       | 0.119/3          | 0.14       | 0.98  | 0.07         | 2.2        | 129         | 565           | 30             | *       | .12    | .10    | .08    |
| 137411   | LVB2040          | JVP  | 2    | Blue           | Blue diffused                        | T1       | 0.119/3          | 0.21       | 0.98  | 0.10         | 4.8        | 10          | 430           | 50             | *       | .89    | .79    | .69    |
| 334457   | LSB12640         | JVP  | 5    | Blue           | Blue diffused                        | T1       | 0.119/3          | 0.17       | 0.98  | 0.10         | 3.8        | 50          | 430           | 40             | *       | .89    | .79    | .69    |
| 333383   | UT63B1-41-M1A2   | JVP  | 5    | Blue           | Blue diffused                        | T1       | 0.119/3          | 0.17       | 0.98  | 0.10         | 3.8        | 50          | 466           | 54             | *       | .49    | .45    | .35    |
| 333973   | UT1871-81-M1     | JVP  | 2    | Red            | Red diffused                         | T1 ¾     | 0.197/5          | 0.34       | 0.98  | 0.10         | 1.7        | 75          | 660           | 25             | *       | .12    | .10    | .08    |
| 334035   | UT1871-81-UR-P18 | JVP  | 2    | Red            | Red diffused                         | T1 ¾     | 0.197/5          | 0.334      | 0.94  | 0.10         | 1.9        | 250         | 660           | 25             | *       | .15    | .12    | .10    |
| 253753   | HLMP-3301        | FSC  | 2    | Red            | Red diffused                         | T1 ¾     | 0.197/5          | 0.36       | 1.00  | 0.10         | 2.4        | 5.4         | 635           | 60             | *       | .15    | .12    | .10    |
| 242844   | LT1811-81        | LED  | 2    | Red            | Red diffused                         | T1 ¾     | 0.197/5          | 0.30       | 0.88  | 0.10         | 2.1        | 4.1         | 700           | 44             | *       | .12    | .10    | .08    |
| 302033   | LT1814-81        | LED  | 2    | Red            | Red clear                            | T1 ¾     | 0.197/5          | 0.34       | 0.88  | 0.10         | 2.1        | 10          | 650           | 10             | *       | .10    | .08    | .06    |
| 333489   | LUR3330/HO/A     | JVP  | 2    | Red            | Red diffused                         | T1 ¾     | 0.197/5          | 0.34       | 0.98  | 0.10         | 1.5        | 380         | 660           | 40             | *       | .19    | .15    | .12    |
| 94511    | LH3330           | JVP  | 2    | Red            | Red diffused (XC556RB)               | T1 ¾     | 0.197/5          | 0.31       | 0.81  | 0.08         | 2.3        | 3           | 697           | 36             | *       | .15    | .12    | .10    |
| 104248   | LA93B/H-1        | JVP  | 8    | Red            | Red diffused (XC410R)                | T1 ¾     | 0.197/5          | 0.35       | 0.89  | 0.08         | 2.3        | 6.5         | 697           | 46             | *       | .25    | .21    | .19    |
| 34690    | LFH3360          | JVP  | 2    | Red            | Red diff. blinking (XC5410) 2        | T1 ¾     | 0.197/5          | 0.30       | 0.94  | 0.07         | 3-12       | 2.8         | 697           | —              | *       | .39    | .35    | .29    |
| 1554865  | HLMP-4700-C00B2  | AVT  | 8    | Red            | Red tinted/diffused                  | T1 ¾     | 0.197/5          | 0.36       | 1.05  | 0.10         | 1.7        | 2.3         | 626           | 50             | *       | .59    | .55    | .49    |
| 34745    | LH3333           | JVP  | 2    | Red            | Water clear (XC554R)                 | T1 ¾     | 0.197/5          | 0.30       | 1.00  | 0.08         | 2.3        | 7.5         | 697           | 20             | *       | .15    | .12    | .10    |
| 2006756  | LTL-5224         | LTO  | 2    | Hi-eff Red     | Water clear, low profile, flanged    | T1 ¾     | 0.197/5          | 0.24       | 1.01  | 0.10         | 2.0        | 29          | 623           | 44             | *       | .12    | .10    | .08    |
| 334378   | UT1841R-81       | JVP  | 2    | Hi-eff Red     | Red diffused                         | T1 ¾     | 0.197/5          | 0.34       | 0.98  | 0.10         | 2.1        | 23.1        | 630           | 44             | *       | .12    | .10    | .08    |
| 697602   | LTL-4223         | LTO  | 2    | Hi-eff Red     | Red diffused                         | T1 ¾     | 0.197/5          | 0.34       | 1.00  | 0.10         | 2.0        | 19          | 635           | 36             | *       | .11    | .09    | .07    |
| 697522   | LTL-307E         | LTO  | 5    | Hi-eff Red     | Red diffused                         | T1 ¾     | 0.197/5          | 0.34       | 0.9   | 0.10         | 2.0        | 19          | 635           | 50             | *       | .12    | .10    | .08    |
| 2006692  | LTL-10224WHCR    | LTO  | 9    | Hi-eff Red     | Red diffused w/ plastic case         | T1 ¾     | 0.197/5          | 0.44       | 0.49  | 0.10         | 2.0        | 60          | 635           | 30             | *       | .15    | .12    | .09    |
| 790081   | LTL-10223W       | LTO  | 5    | Hi-eff Red     | Red diffused, flangeless             | T1 ¾     | 0.187/4.75       | 0.283      | 1.00  | 0.10         | 2.0        | 60          | 623           | 60             | *       | .12    | .10    | .08    |
| 2006730  | LTL-307E-3       | LTO  | 2    | Hi-eff Red     | Red diffused, flanged                | T1 ¾     | 0.197/5          | 0.34       | 0.87  | 0.10         | 2.0        | 12.6        | 635           | 40             | *       | .10    | .08    | .06    |
| 334271   | LA93B/I          | JVP  | 8    | Hi-eff Red     | Red diffused PCB mnt indicators      | T1 ¾     | 0.197/5          | 0.36       | 0.15  | 0.10         | 1.7        | 25          | 635           | 46             | *       | .29    | .25    | .19    |
| 697611   | LTL-4224         | LTO  | 2    | Hi-eff Red     | Red transparent                      | T1 ¾     | 0.197/5          | 0.34       | 1.00  | 0.10         | 2.0        | 90          | 635           | 16             | *       | .10    | .08    | .06    |
| 697573   | LTL-4213         | LTO  | 2    | Bright Red     | Red diffused                         | T1 ¾     | 0.197/5          | 0.34       | 1.00  | 0.10         | 2.1        | 3.7         | 697           | 36             | *       | .11    | .09    | .07    |
| 790225   | LTL-307P         | LTO  | 5    | Bright Red     | Red diffused                         | T1 ¾     | 0.197/5          | 0.34       | 0.90  | 0.10         | 2.1        | 5.6         | 697           | 50             | *       | .12    | .10    | .08    |
| 334174   | LH13360          | JVP  | 6    | Red/Orange     | Red diffused bi-color/solid state 1  | T1 ¾     | 0.197/5          | 0.34       | 0.98  | 0.10         | 1.7        | 2 & 3       | 697/635       | 30             | *       | .19    | .15    | .12    |
| 34711    | LEG3362          | JVP  | 2    | Red/Green      | White diffused bi-color/bi-state 1   | T1 ¾     | 0.197/5          | 0.30       | 1.01  | 0.09         | 2.3        | 7.5         | 635/565       | 30             | *       | .19    | .15    | .12    |
| 334182   | LGH3362          | JVP  | 6    | Red/Green      | White diff. bi-color/solid state 1   | T1 ¾     | 0.197/5          | 0.34       | 0.98  | 0.10         | 1.7        | 2 & 8       | 697/565       | 30             | *       | .19    | .15    | .12    |
| 34673    | LHG3392          | JVP  | 6    | Red/Green      | White diff. bi-color/tri-state 1     | T1 ¾     | 0.197/5          | 0.30       | 1.02  | 0.03         | 2.3        | 3 & 12      | 697/565       | 70             | *       | .19    | .15    | .12    |
| 1584773  | HLMP-4000S010    | AVT  | 8    | Hi-eff Red/Gn  | Diffused, bi-color                   | T1 ¾     | 0.197/5          | 0.36       | 1.05  | 0.10         | 2.2/1.9    | 4.2/2.1     | 568/635       | 65             | *       | .79    | .69    | .59    |
| 697557   | LTL-30EFJ        | LTO  | 6    | Bright Red/Gn  | White diffused, bi-color             | T1 ¾     | 0.197/5          | 0.41       | 0.945 | 0.10         | 2.1/2.1    | 5.6/19      | 697/565       | 30             | *       | .39    | .35    | .29    |
| 152857   | LT1841R-81-R     | LED  | 2    | Orange Red     | Red diffused                         | T1 ¾     | 0.197/5          | 0.34       | 0.89  | 0.10         | 2.1        | 23          | 635           | 44             | *       | .15    | .12    | .10    |
| 210825   | BVU-5M1QN1       | BVO  | 5    | Orange Red     | Red diffused                         | T1 ¾     | 0.197/5          | 0.30       | 1.00  | 0.10         | 2.1        | 465         | 615           | 30             | *       | .10    | .08    | .06    |
| 107393   | LE3330           | JVP  | 2    | Orange Red     | Orange diffused (XC556A)             | T1 ¾     | 0.197/5          | 0.30       | 1.02  | 0.08         | 2.3        | 12          | 635           | 36             | *       | .12    | .10    | .08    |
| 697696   | LTL-4253         | LTO  | 2    | Yellow         | Yellow diffused                      | T1 ¾     | 0.197/5          | 0.34       | 1.00  | 0.10         | 2.1        | 19          | 585           | 36             | *       | .12    | .10    | .08    |
| 334108   | UT1831-81-S      | JVP  | 2    | Yellow         | Yellow diffused                      | T1 ¾     | 0.197/5          | 0.34       | 0.98  | 0.10         | 2.1        | 16.4        | 589           | 44             | *       | .12    | .10    | .08    |
| 333622   | LHY3330/HO       | JVP  | 2    | Yellow         | Yellow diffused                      | T1 ¾     | 0.197/5          | 0.34       | 0.98  | 0.10         | 1.7        | 350         | 595           | 40             | *       | .15    | .12    | .10    |
| 697549   | LTL-307Y         | LTO  | 5    | Yellow         | Yellow diffused                      | T1 ¾     | 0.197/5          | 0.34       | 0.90  | 0.10         | 0.1        | 29          | 585           | 50             | *       | .12    | .10    | .08    |
| 34825    | LY3330           | JVP  | 2    | Yellow         | Yellow diffused (XC556Y)             | T1 ¾     | 0.197/5          | 0.30       | 0.82  | 0.07         | 2.3        | 12          | 585           | 36             | *       | .15    | .12    | .10    |
| 104264   | LA93B/Y-1        | JVP  | 8    | Yellow         | Yellow diffused (XC410Y)             | T1 ¾     | 0.197/5          | 0.35       | 0.89  | 0.08         | 2.3        | 25          | 585           | 46             | *       | .25    | .21    | .19    |
| 1995927  | LTL-102253       | LTO  | 2    | Yellow         | Yellow diffused, flanged             | T1 ¾     | 0.187/4.75       | 0.283      | 1.00  | 0.10         | 2.1        | 12.6        | 585           | 60             | *       | .10    | .08    | .06    |
| 790381   | LTL-553-11       | LTO  | 8    | Yellow         | Yellow diffused, right angle PCB     | T1 ¾     | 0.189/4.8        | 0.37       | 0.32  | 0.10         | 2.1        | 12.6        | 585           | 60             | *       | .29    | .25    | .19    |

\* 10 pcs./ \*\* 100 pcs. in LEDs & LED Mounting Hardware cabinet kit, pg 30 1 Reverse polarity to change color 2 Volt. shown is operating volt. range: no current limiting resistor required.

Standard-Output LEDs continued on next page

\* AVT = Avago Technology | BVO = BV Optotech | FSC = Fairchild Semi | JVP = Jameco ValuePro | LED = Ledtech | LIG = Ligitek | LTO = Lite-On | + Varies

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 197.



## Standard-Output LEDs (Continued)

Figure images on page 25

★ Web Code: FAF

\* Order in multiples of 10

| Part No. | Product No.     | Mfr. | Fig. | Emitting Color | Lens/Feature Description                      | LED Size | Diameter inch/mm | Dimensions |      | Lead Spacing | Typical Vf | Typical mcd | Wavelength nm | Viewing Angle° | Pricing |       |       |       |
|----------|-----------------|------|------|----------------|---|----------|------------------|------------|------|--------------|------------|-------------|---------------|----------------|---------|-------|-------|-------|
|          |                 |      |      |                |   |          |                  | A"         | B"   |              |            |             |               |                | 1       | 10    | 100   | 1000  |
| 152831   | LT1831-81-UR    | LED  | 2    | Bright yellow  | Yellow diffused                               | T1 3/4   | 0.197/5          | 0.34       | 0.89 | 0.10         | 2.0        | 424         | 593           | 41             | \$.39   | \$.29 | \$.25 | \$.19 |
| 1554603  | HLMP-3401-E00B2 | AVT  | 8    | Amber          | Amber diffused                                | T1 3/4   | 0.197/5          | 0.36       | 1.05 | 0.10         | 2.0        | 5.7         | 583           | 60             | .49     | .45   | .39   | .35   |
| 697653   | LTL-4233        | LTO  | 2    | Green          | Green diffused                                | T1 3/4   | 0.197/5          | 0.40       | 1.00 | 0.10         | 2.1        | 19          | 565           | 36             | *       | .12   | .10   | .08   |
| 693901   | MCDL-5013GD     | MCD  | 2    | Green          | Green diffused                                | T1 3/4   | 0.197/5          | 0.34       | 1.04 | 0.10         | 2.1        | 12.5        | 565           | 60             | *       | .10   | .08   | .06   |
| 697531   | LTL-307G        | LTO  | 2    | Green          | Green diffused                                | T1 3/4   | 0.197/5          | 0.34       | 1.00 | 0.10         | 2.1        | 19          | 565           | 50             | *       | .12   | .10   | .08   |
| 152822   | LT1821-81-HE    | LED  | 2    | Green          | Green diffused                                | T1 3/4   | 0.197/5          | 0.34       | 0.89 | 0.10         | 2.1        | 96          | 567           | 41             | *       | .19   | .15   | .12   |
| 253833   | HLMP-4740       | FSC  | 2    | Green          | Green diffused                                | T1 3/4   | 0.197/5          | 0.36       | 1.00 | 0.10         | 2.2        | 2.3         | 565           | 50             | *       | .15   | .12   | .10   |
| 334086   | LG13740         | JVP  | 2    | Green          | Green diffused                                | T1 3/4   | 0.197/5          | 0.34       | 0.98 | 0.10         | 1.7        | 20          | 565           | 68             | *       | .10   | .08   | .06   |
| 34761    | LG3330          | JVP  | 2    | Green          | Green diffused (XC556G)                       | T1 3/4   | 0.197/5          | 0.31       | 0.79 | 0.09         | 2.3        | 12          | 565           | 36             | *       | .15   | .12   | .10   |
| 104256   | LA93B/G-1       | JVP  | 8    | Green          | Green diffused (XC410G)                       | T1 3/4   | 0.197/5          | 0.35       | 0.89 | 0.08         | 2.3        | 30          | 565           | 46             | *       | .19   | .15   | .12   |
| 790090   | LT-10233W       | LTO  | 2    | Green          | Green diffused, flangeless                    | T1 3/4   | 0.187/4.75       | 0.28       | 1.0  | 0.10         | 2.1        | 40          | 569           | 60             | *       | .15   | .12   | .10   |
| 94561    | LFG3360         | JVP  | 2    | Green          | Green diffused blinking (XC5408)              | T1 3/4   | 0.197/5          | 0.30       | 1.05 | 0.08         | 3-12       | 17          | 565           | 20             | .39     | .35   | .29   | .25   |
| 1554881  | HLMP-4740-A00B2 | AVT  | 8    | Green          | Green tinted/diffused                         | T1 3/4   | 0.197/5          | 0.36       | 1.05 | 0.10         | 1.9        | 2.3         | 569           | 50             | .49     | .45   | .39   | .35   |
| 175687   | LT0524-81       | LED  | 2    | Green          | Green transparent                             | T1 3/4   | 0.197/5          | 0.24       | 1.07 | 0.07         | 2.1        | 44          | 567           | 30             | *       | .10   | .08   | .06   |
| 697661   | LTL4234         | LTO  | 2    | Green          | Green transparent                             | T1 3/4   | 0.197/5          | 0.34       | 1.00 | 0.10         | 2.1        | 60          | 565           | 16             | *       | .10   | .08   | .06   |
| 2100232  | LTL-10234WHC    | LTO  | 6    | Green          | Green clear with plastic case                 | T1 3/4   | 0.197/5          | 0.44       | 0.49 | 0.10         | 2.1        | 60          | 565           | 30             | *       | .19   | .15   | .12   |
| 333956   | LG3331          | JVP  | 2    | Green          | Green transparent                             | T1 3/4   | 0.197/5          | 0.34       | 0.98 | 0.10         | 1.7        | 150         | 565           | 20             | *       | .10   | .08   | .06   |
| 156962   | LT1823-81-HE    | LED  | 2    | Green          | Water clear                                   | T1 3/4   | 0.197/5          | 0.34       | 0.87 | 0.10         | 2.1        | 500         | 567           | 19             | *       | .12   | .10   | .08   |
| 11359    | LG3333          | JVP  | 2    | Green          | Water clear (BG5704)                          | T1 3/4   | 0.197/5          | 0.30       | 1.04 | 0.07         | 2.3        | 100         | 565           | 20             | *       | .10   | .08   | .06   |
| 790321   | LTL4238         | LTO  | 2    | Green          | Water clear                                   | T1 3/4   | 0.197/5          | 0.34       | 1.00 | 0.10         | 2.1        | 90          | 565           | 16             | *       | .12   | .10   | .08   |
| 333227   | LG13530         | JVP  | 5    | Hi-eff green   | Green diffused (flangeless)                   | T1 3/4   | 0.197/5          | 0.34       | 0.98 | 0.10         | 1.7        | 25          | 565           | 70             | *       | .10   | .08   | .06   |
| 138691   | LVB3330         | JVP  | 2    | Blue           | Blue diffused                                 | T1 3/4   | 0.197/5          | 0.34       | 0.98 | 0.10         | 4.8        | 10          | 430           | 36             | .99     | .89   | .75   | .69   |
| 2006764  | LTL-2R3CBD3     | LTO  | 2    | Blue           | Blue diffused, flanged                        | T1 3/4   | 0.197/5          | 0.34       | 0.87 | 0.10         | 3.5        | 50          | 468           | 45             | .49     | .39   | .29   | .25   |
| 119634   | LHR3930         | JVP  | 2    | Red            | Red diffused Jumbo (LT9952L)                  | T2 1/2   | 0.315/8          | 0.44       | 0.84 | 0.07         | 2.0        | 100         | 660           | 44             | *       | .19   | .15   | .12   |
| 138683   | LHR3630         | JVP  | 5    | Red            | Red diffused XJumbo (XC10R)                   | T3 1/4   | 0.394/10         | 0.40       | 1.04 | 0.10         | 2.0        | 100         | 660           | 32             | .29     | .25   | .19   | .15   |
| 98984    | LVG3630         | JVP  | 2    | Green          | Green diffused XJumbo (XC10G)                 | T3 1/4   | 0.394/10         | 0.40       | 1.07 | 0.08         | 2.3        | 40          | 565           | 32             | .29     | .25   | .19   | .15   |
| 104889   | LEG5292         | JVP  | 9    | Red/Green      | White diff. bi-color rectangular <sup>1</sup> | 2x5mm    | —                | 0.27       | 1.02 | 0.08         | 2.3        | 6/6         | 695/565       | 116            | .29     | .25   | .19   | .15   |
| 790356   | LTL-433G        | LTO  | 9    | Green          | Green diffused, rectangular                   | 2x5mm    | —                | 0.30       | 1.00 | 0.10         | 2.1        | 3.7         | 565           | 140            | *       | .12   | .10   | .08   |
| 320282   | 566-0306        | DIA  | 10   | Yellow         | Yellow diffused, rectangular                  | 2x5mm    | 15x4x7mm         | 0.28       | 0.11 | 0.10         | 2.1        | 3.5         | 583           | 110            | *       | .19   | .15   | .12   |
| 320274   | 566-0206        | DIA  | 10   | Green          | Green diffused, rectangular                   | 2x5mm    | 15x4x7mm         | 0.28       | 0.11 | 0.10         | 2.2        | 4           | 565           | 110            | *       | .19   | .15   | .12   |
| 320291   | 566-0406        | DIA  | 10   | Red            | Red diffused, rectangular                     | 2x5mm    | 15x4x7mm         | 0.28       | 0.11 | 0.10         | 2.0        | 7.4         | 635           | 140            | *       | .19   | .15   | .12   |

\* 10 pcs. in LEDs & LED Mounting Hardware cabinet kit, pg 30

<sup>1</sup> Reverse polarity to change color

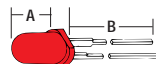


Fig. 1

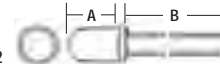


Fig. 2

\* Order in multiples of 10

## Medium-Output LEDs

★ Web Code: MBW

| Part No. | Product No.   | Mfr. | Fig. | Emitting Color   | Lens/Feature Description | LED Size | Diameter inch/mm | Dimensions |      | Lead Spacing | Typical Vf | Typical mcd | Wavelength nm | Viewing Angle° | Pricing |       |       |       |
|----------|---------------|------|------|------------------|--------------------------|----------|------------------|------------|------|--------------|------------|-------------|---------------|----------------|---------|-------|-------|-------|
|          |               |      |      |                  |                          |          |                  | A"         | B"   |              |            |             |               |                | 1       | 10    | 100   | 1000  |
| 156954   | LT0373-41     | LED  | 1    | Red Super Bright | Water clear              | T1       | 0.119/3          | 0.21       | 1.07 | 0.08         | 1.7        | 600         | 660           | 46             | *       | \$.19 | \$.15 | \$.12 |
| 333340   | LHE2643       | JVP  | 1    | Orange           | Water clear              | T1       | 0.119/3          | 0.13       | 0.98 | 0.10         | 1.7        | 700         | 620           | 40             | *       | .19   | .15   | .12   |
| 333307   | LUY2643-1     | JVP  | 1    | Yellow           | Water clear              | T1       | 0.197/5          | 0.13       | 0.98 | 0.10         | 1.7        | 900         | 595           | 40             | .35     | .29   | .25   | .19   |
| 98968    | QLMP-LB98     | AVT  | 2    | Blue             | Blue clear (oval)        | T1       | 0.119/3          | 0.28       | 0.94 | 0.10         | 3.2        | 550         | 470           | 70             | .35     | .29   | .25   | .19   |
| 334749   | UT6B3-41-UR33 | JVP  | 1    | Blue             | Water clear              | T1       | 0.119/3          | 0.17       | 0.94 | 0.10         | 3.2        | 900         | 470           | 45             | .79     | .69   | .59   | .49   |
| 2115688  | NSPB346BST    | NCH  | 2    | Blue             | Blue diffused (oval)     | T1       | 0.119/3          | 0.28       | 0.94 | 0.10         | 3.6        | 720         | 470           | 30             | .49     | .45   | .39   | .35   |
| 334764   | CMD204UWC-JV  | JVP  | 1    | White            | Water clear              | T1       | 0.119/3          | 0.20       | 1.00 | 0.10         | 3.7        | 900         | 475           | 30             | .99     | .89   | .75   | .65   |
| 11797    | QLMP-D141*    | FSC  | 1    | Red              | Water clear              | T1 3/4   | 0.197/5          | 0.29       | 1.05 | 0.07         | 2.0        | 350         | 660           | 8              | *       | .19   | .15   | .12   |
| 333497   | LSR13233      | JVP  | 1    | Red              | Water clear              | T1 3/4   | 0.197/5          | 0.35       | 0.98 | 0.10         | 1.5        | 720         | 660           | 18             | *       | .19   | .15   | .12   |
| 1995978  | LTL-353CKRH4  | LTO  | 2    | Red              | Water clear              | T1 3/4   | 0.197/5          | 0.35       | 1.00 | 0.10         | 1.8        | 1000        | 660           | 12             | *       | .19   | .15   | .12   |
| 2077052  | HLMP-ED31     | AGT  | 2    | Red              | Water clear              | T1 3/4   | 0.197/5          | 0.34       | 0.94 | 0.10         | 2.0        | 1000        | 630           | 30             | *       | .15   | .12   | .09   |
| 206519   | LHR3331       | JVP  | 1    | Red              | Red transparent          | T1 3/4   | 0.197/5          | 0.24       | 1.07 | 0.07         | 2.0        | 660         | 550           | 20             | *       | .19   | .15   | .12   |
| 152864   | BVU501SR4     | JVP  | 1    | Red Super Bright | Water clear              | T1 3/4   | 0.197/5          | 0.34       | 0.89 | 0.10         | 1.9        | 600         | 660           | 20             | *       | .12   | .10   | .08   |
| 351089   | MCDL-517URD-F | JVP  | 1    | Super Red        | Red diffused blinking    | T1 3/4   | 0.197/5          | 0.34       | 1.00 | 0.10         | 1.8        | 500         | 660           | 120            | .49     | .45   | .39   | .35   |
| 333631   | LUE13733      | JVP  | 1    | Orange           | Water clear              | T1 3/4   | 0.197/5          | 0.34       | 0.98 | 0.10         | 1.7        | 700         | 620           | 25             | .29     | .25   | .21   | .19   |
| 203553   | HLMP-4100     | AGT  | 1    | Orange Red       | Water clear              | T1 3/4   | 0.197/5          | 0.32       | 1.00 | 0.10         | 1.8        | 750         | 642           | 8              | .29     | .25   | .19   | .15   |
| 152792   | LT1833-81- M1 | LED  | 1    | Yellow           | Water clear              | T1 3/4   | 0.197/5          | 0.34       | 0.89 | 0.10         | 2.1        | 1040        | 593           | 19             | .29     | .25   | .19   | .15   |
| 206501   | LVY3331       | JVP  | 1    | Yellow           | Yellow transparent       | T1 3/4   | 0.197/5          | 0.24       | 1.07 | 0.07         | 2.2        | 700         | 595           | 20             | *       | .19   | .15   | .12   |
| 153154   | LVG3333       | JVP  | 1    | Green            | Water clear (HLMP-8509)  | T1 3/4   | 0.197/5          | 0.36       | 0.90 | 0.10         | 2.3        | 500         | 565           | 20             | *       | .15   | .12   | .10   |
| 333551   | LVG13233      | JVP  | 1    | Green            | Water clear              | T1 3/4   | 0.197/5          | 0.35       | 0.98 | 0.10         | 1.7        | 600         | 565           | 18             | *       | .19   | .15   | .12   |
| 134333   | 383UBC/H2     | JVP  | 1    | Blue             | Water clear              | T1 3/4   | 0.197/5          | 0.34       | 1.00 | 0.10         | 3.8        | 630         | 428           | 30             | 1.49    | 1.35  | 1.19  | 1.09  |
| 334465   | LDBK3331/H0   | JVP  | 1    | Blue             | Blue transparent         | T1 3/4   | 0.197/5          | 0.34       | 0.98 | 0.10         | 3.5        | 900         | 470           | 26             | .89     | .79   | .65   | .59   |

\* 10 pcs. in LEDs & LED Mounting Hardware cabinet kit, pg 30

\* AGT = Agilent | AVT = Avago Technology | DIA = Dialight | FSC = Fairchild Semi | JVP = Jameco ValuePro | LED = Ledtech | LTO = Lite-On | MCD = MCD Electronics | NCH = Nichia

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# High-Output LEDs

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## High-Output LEDs

• Typical DC forward current 20mA

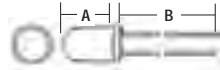


Fig. 1

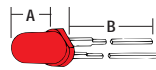


Fig. 2

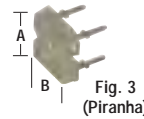


Fig. 3  
(Piranha)

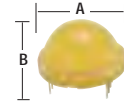


Fig. 4

★ Web Code: RBJ

\* Order in multiples of 10

| Part No. | Product No.           | Mfr. | Fig. | Emitting Color  | Lens/Feature Description  | LED Size  | Diameter inch/mm | Dimensions |      | Lead Spacing | Typical Vf | Typical mcd | Wavelength nm | Viewing Angle° | Pricing |        |        |        |
|----------|-----------------------|------|------|-----------------|---------------------------|-----------|------------------|------------|------|--------------|------------|-------------|---------------|----------------|---------|--------|--------|--------|
|          |                       |      |      |                 |                           |           |                  | A"         | B"   |              |            |             |               |                | 1       | 10     | 100    | 1000   |
| 98950    | QLMP-LM98             | AVT  | 1    | Green           | Green clear (oval)        | T1        | 0.119/3          | 0.28       | 0.94 | 0.10         | 3.2        | 2400        | 525           | 70             | *       | \$ .19 | \$ .15 | \$ .12 |
| 217525   | MCDPW-3004C           | JVP  | 1    | White           | Water clear               | T1        | 0.119/3          | 0.18       | 1.00 | 0.10         | 3.8        | 3000        | —             | 30             | 1.39    | 1.25   | 1.09   | .99    |
| 197641   | BVT-529TT8E           | JVP  | 1    | Yellow          | Yellow clear (oval)       | T1 ½      | 0.178/4.5        | 0.29       | 1.09 | 0.08         | 2.3        | 3600        | 592           | 70             | .59     | .49    | .39    | .35    |
| 2006801  | LTL-2H3VAKNT          | LTO  | 2    | Red             | Water clear, flanged      | T1 ¾      | 0.197/5          | 0.34       | 0.87 | 0.10         | 2.0        | 3400        | 621           | 15             | .29     | .25    | .19    | .15    |
| 197617   | BVU-5E1QH4E           | JVP  | 2    | Red             | Water clear               | T1 ¾      | 0.197/5          | 0.30       | 1.05 | 0.08         | 1.8        | 2180        | 630           | 15             | .25     | .21    | .19    | .15    |
| 334423   | UT9C13-86-UDC2        | JVP  | 2    | Red             | Water clear               | T1 ¾      | 0.197/5          | 0.34       | 0.98 | 0.10         | 1.9        | 2700        | 630           | 18             | .25     | .21    | .19    | .16    |
| 333518   | LUR13233              | JVP  | 2    | Red             | Water clear               | T1 ¾      | 0.197/5          | 0.35       | 0.98 | 0.10         | 1.5        | 2400        | 660           | 18             | *       | .19    | .15    | .12    |
| 333526   | LUR38333              | JVP  | 2    | Red             | Water clear               | T1 ¾      | 0.197/5          | 0.35       | 0.98 | 0.10         | 1.5        | 2700        | 660           | 12             | .25     | .21    | .19    | .16    |
| 1586189  | UT1813-83-UJUEI       | LED  | 2    | Red             | Water clear               | T1 ¾      | 0.197/5          | 0.34       | 1.00 | 0.10         | 2.1        | 5500        | 632           | 25             | .39     | .35    | .29    | .19    |
| 1584917  | HLMP-EG08-Y2000       | AVT  | 2    | Red             | Red untinted/non-diffused | T1 ¾      | 0.197/5          | 0.34       | 1.20 | 0.10         | 1.9        | 9300        | 635           | 6              | .49     | .39    | .35    | .29    |
| 261622   | LT1873-81-UR-P22      | LED  | 1    | Red             | Water clear               | T1 ¾      | 0.197/5          | 0.34       | 0.89 | 0.10         | 1.9        | 1200        | 660           | 25             | .25     | .21    | .19    | .16    |
| 333447   | UT1873-81-UR-P22R     | JVP  | 1    | Super Red       | Water clear               | T1 ¾      | 0.197/5          | 0.34       | 0.89 | 0.10         | 1.9        | 1600        | 660           | 25             | .25     | .21    | .19    | .16    |
| 2095171  | RL50-PR543            | JVP  | 1    | Ult. Bright Red | Water clear               | T1 ¾      | 0.197/5          | 0.30       | 1.02 | 0.10         | 1.7        | 8000        | 635           | 20             | .39     | .29    | .19    | .15    |
| 334482   | UT1813-86-UC9T-P27    | JVP  | 2    | Ult. Bright Red | Water clear               | T1 ¾      | 0.197/5          | 0.34       | 0.94 | 0.10         | 2.2        | 3500        | 630           | 15             | .49     | .45    | .35    | .29    |
| 197683   | BVT-5E1QT4ER          | JVP  | 2    | Orange Red      | Water clear               | T1 ¾      | 0.197/5          | 0.29       | 1.08 | 0.08         | 2.3        | 4650        | 634           | 15             | .59     | .55    | .45    | .39    |
| 2006799  | LTL-2R3VYKNT          | LTO  | 2    | Orange          | Water clear, flanged      | T1 ¾      | 0.197/5          | 0.34       | 0.87 | 0.10         | 2.0        | 1300        | 595           | 30             | *       | .15    | .12    | .10    |
| 333665   | LEF38333              | JVP  | 2    | Orange          | Water clear               | T1 ¾      | 0.197/5          | 0.34       | 0.98 | 0.10         | 1.7        | 1700        | 620           | 12             | .25     | .22    | .19    | .15    |
| 333649   | LHE33333              | JVP  | 2    | Orange          | Water clear               | T1 ¾      | 0.197/5          | 0.34       | 0.98 | 0.10         | 1.7        | 1800        | 620           | 20             | *       | .19    | .15    | .12    |
| 333657   | LUE33333              | JVP  | 1    | Orange          | Water clear               | T1 ¾      | 0.197/5          | 0.34       | 0.94 | 0.10         | 2.1        | 3400        | 620           | 20             | .39     | .35    | .25    | .19    |
| 333673   | LUE38333              | JVP  | 1    | Orange          | Water clear               | T1 ¾      | 0.197/5          | 0.34       | 0.94 | 0.10         | 2.1        | 5000        | 620           | 12             | .45     | .39    | .29    | .25    |
| 333577   | LUYS33333             | JVP  | 2    | Yellow          | Water clear               | T1 ¾      | 0.197/5          | 0.34       | 0.98 | 0.10         | 1.7        | 2700        | 587           | 20             | .35     | .29    | .25    | .19    |
| 333614   | LUY3833H              | JVP  | 2    | Yellow          | Water clear               | T1 ¾      | 0.197/5          | 0.34       | 0.98 | 0.10         | 1.7        | 5000        | 590           | 12             | .45     | .39    | .29    | .25    |
| 333569   | LUY3333/A*            | JVP  | 2    | Yellow          | Water clear               | T1 ¾      | 0.197/5          | 0.35       | 1.00 | 0.10         | 1.7        | 1500        | 595           | 20             | *       | .15    | .12    | .10    |
| 333593   | LUY13533              | JVP  | 2    | Yellow          | Water clear               | T1 ¾      | 0.197/5          | 0.35       | 1.00 | 0.10         | 1.7        | 1500        | 595           | 20             | .29     | .25    | .19    | .15    |
| 333606   | LHY38333              | JVP  | 1    | Yellow          | Water clear               | T1 ¾      | 0.197/5          | 0.34       | 0.94 | 0.10         | 2.1        | 2700        | 595           | 12             | .29     | .25    | .19    | .15    |
| 197675   | BVT-5E1TT4E           | JVP  | 1    | Yellow          | Water clear               | T1 ¾      | 0.197/5          | 0.34       | 1.00 | 0.10         | 2.3        | 7800        | 592           | 15             | .45     | .39    | .35    | .29    |
| 2095189  | RL50-PY543            | JVP  | 1    | Ultra Yellow    | Water clear               | T1 ¾      | 0.197/5          | 0.30       | 1.02 | 0.10         | 1.7        | 8000        | 595           | 20             | .39     | .29    | .19    | .15    |
| 2006772  | LTL-2H3VYKNJ1         | LTO  | 2    | Amber/Yellow    | Water clear, flanged      | T1 ¾      | 0.197/5          | 0.34       | 0.87 | 0.10         | 2.0        | 3400        | 595           | 15             | *       | .15    | .12    | .10    |
| 2006781  | LTL-2R3SYKS           | LTO  | 2    | Amber           | Water clear, flanged      | T1 ¾      | 0.197/5          | 0.34       | 0.87 | 0.10         | 2.2        | 2800        | 594           | 30             | .39     | .35    | .25    | .19    |
| 334473   | LDGL3333/HO           | JVP  | 2    | Green           | Water clear               | T1 ¾      | 0.197/5          | 0.34       | 0.98 | 0.10         | 3.5        | 3400        | 502           | 22             | .79     | .69    | .65    | .59    |
| 183214   | MCDPG-503PC1          | JVP  | 2    | Green           | Water clear               | T1 ¾      | 0.197/5          | 0.30       | 1.04 | 0.08         | 3.5        | 2200        | 515           | 10-15          | 1.49    | 1.35   | 1.19   | 1.09   |
| 1586197  | UT4123-4D-UBC         | JVP  | 2    | Green           | Water clear               | T1 ¾      | 0.197/5          | 0.32       | 1.00 | 0.10         | 3.0        | 2500        | 500           | 28             | .45     | .39    | .35    | .29    |
| 2077079  | HLMP-CM39-UVCCD       | AGT  | 1    | Green           | Untinted/non-diffused     | T1 ¾      | 0.197/5          | 0.34       | 0.94 | 0.10         | 3.2        | 5000        | 535           | 30             | .49     | .45    | .39    | .35    |
| 183222   | MCDL-513SBC4          | JVP  | 2    | Blue            | Water clear               | T1 ¾      | 0.197/5          | 0.29       | 1.02 | 0.08         | 3.6        | 3000        | 470           | 25             | 1.39    | 1.25   | 1.09   | .99    |
| 334502   | LWK33333              | JVP  | 2    | White           | Water clear               | T1 ¾      | 0.197/5          | 0.34       | 0.98 | 0.10         | 3.5        | 5000        | —             | 16             | .89     | .79    | .65    | .59    |
| 334773   | UT18W3-86-UAF1-P22    | JVP  | 2    | White           | Water clear               | T1 ¾      | 0.197/5          | 0.34       | 1.00 | 0.10         | 3.6        | 2900        | —             | 25             | 1.35    | 1.25   | 1.09   | .99    |
| 183231   | BVU-5C14WK4-B         | JVP  | 2    | White           | Water clear               | T1 ¾      | 0.197/5          | 0.30       | 1.06 | 0.08         | 3.5        | 3000        | —             | 10             | 1.35    | 1.25   | 1.09   | .99    |
| 142894   | BVU-5E1WK4-B          | JVP  | 2    | White           | Water clear               | T1 ¾      | 0.197/5          | 0.34       | 0.79 | 0.08         | 3.5        | 3700        | —             | 15             | 1.35    | 1.25   | 1.09   | .99    |
| 1870796  | MV8W00                | FSC  | 2    | White           | Water clear               | T1 ¾      | 0.197/5          | 0.33       | 1.00 | 0.10         | 3.8        | 2500        | —             | 20             | 2.49    | 2.29   | 2.09   | 1.95   |
| 320531   | MCDL-5013UWC          | JVP  | 2    | White           | Water clear               | T1 ¾      | 0.197/5          | 0.30       | 1.00 | 0.10         | 3.8        | 5000        | —             | 15             | .99     | .89    | .75    | .65    |
| 2077061  | EM-503QWC-R12         | JVP  | 1    | White           | Water clear               | T1 ¾      | 0.197/5          | 0.34       | 1.00 | 0.10         | 4.5        | 5000        | —             | 25             | .99     | .89    | .75    | .65    |
| 2115493  | UT5HW3-4D-URC3-4861-R | LED  | 2    | White           | Water clear               | T1 ¾      | 0.197/5          | 0.30       | 1.00 | 0.10         | 4.0        | 7000        | —             | 30             | 1.19    | 1.09   | .95    | .79    |
| 2005702  | LTL912VEKSA           | LTO  | 3    | Red             | Water clear (7.62mm sq.)  | 3mm dome  | 0.119/3          | 0.30       | 0.30 | 0.20         | 2.1        | 1200        | 632           | 50             | .49     | .45    | .35    | .29    |
| 664405   | MCDL-1860UEC-TL       | JVP  | 3    | Hi-Eff Red      | Water clear (7.62mm sq.)  | 3mm dome  | 0.119/3          | 0.30       | 0.30 | 0.20         | 2.0        | 3200        | 625           | 75             | .49     | .45    | .35    | .29    |
| 1952222  | LTL912SEKSA           | LTO  | 3    | Hi-Eff Red      | Water clear (7.62mm sq.)  | 3mm dome  | 0.119/3          | 0.30       | 0.30 | 0.20         | 2.5        | 3750        | 628           | 60             | .49     | .45    | .35    | .29    |
| 664413   | MCDL-1870UEC-TL       | JVP  | 3    | Hi-Eff Red      | Water clear (7.62mm sq.)  | 3mm dome  | 0.119/3          | 0.30       | 0.30 | 0.20         | 2.0        | 4200        | 625           | 40             | .85     | .75    | .59    | .55    |
| 2005690  | LTL911VYKSA           | LTO  | 3    | Amber           | Water clear (7.62mm sq.)  | 3mm dome  | 0.119/3          | 0.30       | 0.30 | 0.20         | 2.1        | 600         | 595           | 70             | .29     | .25    | .19    | .15    |
| 2005729  | LTL9145YKS            | LTO  | 3    | Amber           | Water clear (7.62mm sq.)  | 3mm dome  | 0.119/3          | 0.30       | 0.30 | 0.20         | 2.5        | 2000        | 596           | 70             | .59     | .55    | .45    | .39    |
| 404603   | MCDL-1860UGC-TL       | JVP  | 3    | Green           | Water clear (7.62mm sq.)  | 3mm dome  | 0.119/3          | 0.30       | 0.30 | 0.20         | 3.5        | 3500        | 525           | 75             | 1.35    | 1.25   | 1.09   | .99    |
| 664376   | MCDL-1870UGC-TL       | JVP  | 3    | Green           | Water clear (7.62mm sq.)  | 3mm dome  | 0.119/3          | 0.30       | 0.30 | 0.20         | 3.5        | 7500        | 525           | 30             | 1.49    | 1.35   | 1.19   | 1.09   |
| 404591   | MCDL-1860UBC-15C      | JVP  | 3    | Blue            | Water clear (7.62mm sq.)  | 3mm dome  | 0.119/3          | 0.30       | 0.30 | 0.20         | 3.5        | 2500        | 470           | 75             | 1.49    | 1.35   | 1.19   | 1.09   |
| 664368   | MCDL-1870UBC-TL       | JVP  | 3    | Blue            | Water clear (7.62mm sq.)  | 3mm dome  | 0.119/3          | 0.30       | 0.30 | 0.20         | 3.5        | 2300        | 470           | 40             | 1.35    | 1.25   | 1.09   | .99    |
| 664341   | MCDL-1870UWC-15C      | JVP  | 3    | White           | Water clear (7.62mm sq.)  | 3mm dome  | 0.119/3          | 0.30       | 0.30 | 0.20         | 3.5        | 6500        | —             | 40             | 1.69    | 1.55   | 1.39   | 1.29   |
| 404582   | MCDL-1860UWC-15C      | JVP  | 3    | Ultra White     | Water clear (7.62mm sq.)  | 3mm dome  | 0.119/3          | 0.30       | 0.30 | 0.20         | 3.5        | 3500        | —             | 75             | 1.69    | 1.55   | 1.39   | 1.29   |
| 2005737  | LTL-811Y              | LTO  | 4    | Yellow          | Sphere lens (12-pin)      | 20mm dome | 0.8/20           | 0.91       | 0.53 | 0.60         | 2.1        | 25          | 565           | 30             | .49     | .45    | .35    | .29    |

\* 10 pcs. in LEDs & LED Mounting Hardware cabinet kit, pg 30

Blue Part No. = Limited Quantity Available

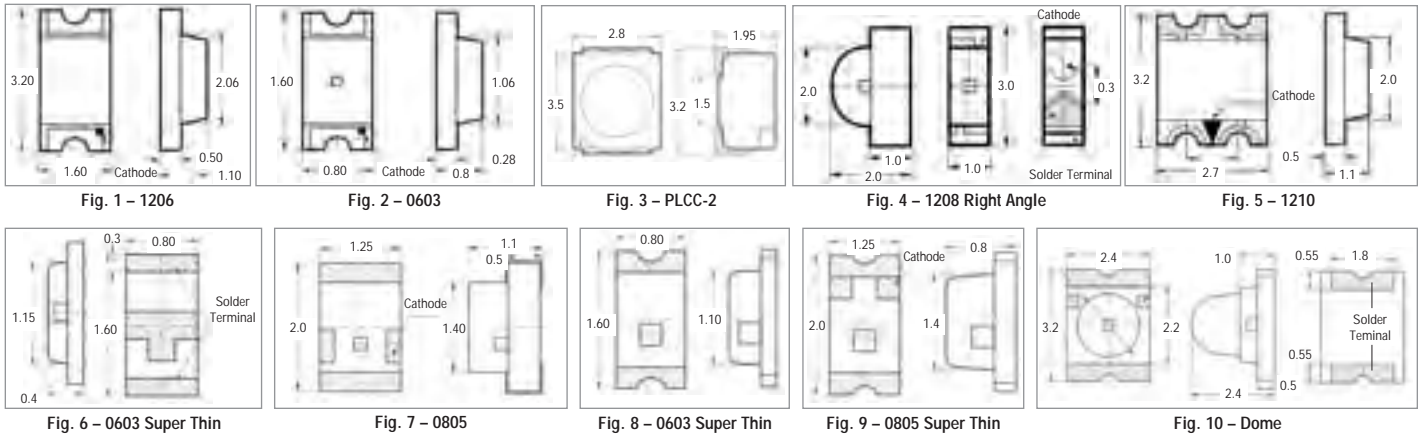
\* AGT = Agilent | AVT = Avago Technology | FSC = Fairchild Semiconductor | JVP = Jameco ValuePro | LED = Ledtech | LTO = Lite-On

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 197.

# Standard & Ultra-Bright Surface Mount LEDs



## Surface Mount LEDs



Optos

### Standard Surface Mount LEDs

\*Web Code: SSM

\* Order in multiples of 10

| Part No. | Mfr. Part No.  | *Mfr. | Fig. | Emitting Color   | Lens/Feature Description | Typical Vf (V) | If Max. (mA) | Iv Typical mcd @ mA | Peak Wavelength (nm) | Viewing Angle (2x Theta) | Pricing |        |        |        |
|----------|----------------|-------|------|------------------|--------------------------|----------------|--------------|---------------------|----------------------|--------------------------|---------|--------|--------|--------|
|          |                |       |      |                  |                          |                |              |                     |                      |                          | 1       | 10     | 100    | 1000   |
| 1556414  | HSMH-C150      | AVT   | 1    | Red              | Water clear              | 1.8            | 20           | 17 @ 20             | 630                  | 130                      | *       | \$ .10 | \$ .08 | \$ .06 |
| 697733   | LTST-C150CKT   | LTO   | 1    | Red              | Water clear              | 1.8            | 40           | 25 @ 20             | 660                  | 130                      | *       | .09    | .07    | .06    |
| 1556422  | HSMH-C170      | AVT   | 1    | Red              | Water clear              | 1.8            | 20           | 17 @ 20             | 660                  | 170                      | *       | .10    | .08    | .06    |
| 1260357  | LTST-C190CKT   | LTO   | 2    | Red              | Water clear              | 1.8            | 40           | 10 @ 10             | 660                  | 130                      | *       | .07    | .05    | .03    |
| 1556431  | HSMH-C190      | AVT   | 2    | Red              | Water clear              | 1.8            | 20           | 17 @ 20             | 610                  | 170                      | *       | .10    | .08    | .06    |
| 658321   | HSL-204DR      | UNI   | 3    | Red              | Water clear              | 1.8            | 20           | 50 @ 20             | 657                  | 130                      | *       | .19    | .15    | .12    |
| 1557054  | HSMH-C660      | AVT   | 4    | Red              | Water clear              | 1.9            | 20           | 5 @ 20              | 639                  | 155                      | *       | .19    | .15    | .12    |
| 334318   | LG-150E-DT     | JVP   | 1    | Hi-eff Red       | White diffused           | 1.7            | 20           | 8 @ 10              | 643                  | 150                      | *       | .10    | .08    | .06    |
| 1556300  | HSMF-C155      | AVT   | 5    | Hi-eff Red/Green | Water clear              | 2.1/2.2        | 20/20        | 10/15 @ 20          | 630/570              | 170/170                  | *       | .19    | .15    | .12    |
| 1260365  | LTST-C150EKT   | LTO   | 2    | Red Orange       | Water clear              | 2.0            | 30           | 2 @ 10              | 630                  | 130                      | *       | .06    | .04    | .03    |
| 1996111  | LTST-C150YKT   | LTO   | 1    | Yellow           | Water clear              | 2.1            | 20           | 6 @ 10              | 585                  | 130                      | *       | .07    | .05    | .03    |
| 334351   | YT95531/TRI    | LIG   | 3    | Yellow           | Water clear              | 1.7            | 20           | 7 @ 10              | 585                  | 84                       | *       | .12    | .10    | .08    |
| 334289   | LG150E-CT      | JVP   | 1    | Orange           | Water clear              | 1.7            | 20           | 6 @ 20              | 635                  | 150                      | *       | .10    | .08    | .06    |
| 697741   | LTST-C150GKT   | LTO   | 1    | Green            | Water clear              | 2.1            | 30           | 6 @ 10              | 565                  | 130                      | *       | .10    | .08    | .07    |
| 334369   | LVG9553/TRI    | LIG   | 3    | Green            | Water clear              | 1.7            | 20           | 9 @ 10              | 565                  | 84                       | *       | .15    | .12    | .10    |
| 1556406  | HSMG-C660      | AVT   | 4    | Green            | Water clear              | 2.2            | 20           | 9 @ 20              | 570                  | 155                      |         | .29    | .25    | .19    |
| 2046441  | LTST-C150CBKT  | LTO   | 1    | Blue             | Water clear              | 3.7            | 20           | 20 @ 20             | 468                  | 130                      |         | .39    | .35    | .25    |
| 334781   | LG-150DBK-CT   | JVP   | 1    | Blue             | Water clear              | 3.5            | 20           | 40 @ 20             | 470                  | 150                      |         | .49    | .45    | .39    |
| 2047945  | LTST-C191TBKT  | LTO   | 5    | Blue             | Water clear              | 3.4            | 20           | 30 @ 20             | 468                  | 130                      |         | .29    | .19    | .15    |
| 2033164  | LTW-C193TS5    | LTO   | 6    | White            | Water clear              | 2.95           | 20           | 78 @ 5              | —                    | 130                      | *       | .19    | .15    | .12    |
| 334756   | LT5KW3-AA-UAE3 | JVP   | 3    | White            | Water clear              | 3.2            | 20           | 750 @ 20            | —                    | 120                      |         | .59    | .49    | .39    |
| 658347   | HSL-204MW      | UNI   | 3    | White            | Water clear              | 3.5            | 20           | 400 @ 20            | —                    | 130                      |         | .69    | .59    | .49    |

### Ultra-Bright AllInGaP Surface Mount LEDs

\*Web Code: UBA

\* Order in multiples of 10

| Part No. | Mfr. Part No.   | *Mfr. | Fig. | Emitting Color | Lens/Feature Description | Typical Vf (V) | If Max. (mA) | Iv Typical mcd @ mA | Peak Wavelength (nm) | Viewing Angle (2x Theta) | Pricing |     |     |      |
|----------|-----------------|-------|------|----------------|--------------------------|----------------|--------------|---------------------|----------------------|--------------------------|---------|-----|-----|------|
|          |                 |       |      |                |                          |                |              |                     |                      |                          | 1       | 10  | 100 | 1000 |
| 658312   | MSL-154DR       | UNI   | 1    | Red            | Water clear              | 1.8            | 20           | 22.5 @ 20           | 660                  | 130                      | *       | .12 | .10 | .08  |
| 658304   | MSL-174DR       | UNI   | 3    | Red            | Water clear              | 1.8            | 20           | 22.5 @ 20           | 660                  | 130                      | *       | .09 | .07 | .06  |
| 658291   | MSL-194DR       | UNI   | 2    | Red            | Water clear              | 1.8            | 20           | 22.5 @ 20           | 660                  | 130                      | *       | .10 | .08 | .06  |
| 697750   | LTST-C150KRKT   | LTO   | 1    | Super Red      | Water clear              | 2.0            | 30           | 54 @ 20             | 639                  | 130                      | *       | .12 | .10 | .08  |
| 1557020  | HSMH-C150       | AVT   | 1    | Hi-eff Red     | Water clear              | 2.1            | 20           | 10 @ 20             | 595                  | 130                      | *       | .12 | .10 | .08  |
| 1557046  | HSMH-C190       | AVT   | 2    | Hi-eff Red     | Water clear              | 2.1            | 30           | 10 @ 20             | 630                  | 130                      | *       | .12 | .10 | .08  |
| 1557071  | HSMY-C150       | AVT   | 1    | Yellow         | Water clear              | 2.1            | 20           | 8 @ 20              | 589                  | 130                      | *       | .12 | .10 | .08  |
| 697792   | LTST-C170KYKT   | LTO   | 7    | Yellow         | Water clear              | 2.0            | 20           | 50 @ 20             | 595                  | 130                      | *       | .10 | .08 | .07  |
| 1556369  | HSMG-C150       | AVT   | 1    | Green          | Water clear              | 2.2            | 20           | 15 @ 20             | 570                  | 170                      | *       | .12 | .10 | .08  |
| 2039902  | LTST-C150FKT    | LTO   | 1    | Green          | Water clear              | 2.1            | 20           | 14.2 @ 20           | 565                  | 130                      | *       | .15 | .12 | .10  |
| 697776   | LTST-C170KGKT   | LTO   | 7    | Green          | Water clear              | 2.0            | 30           | 35 @ 20             | 574                  | 130                      | *       | .12 | .10 | .08  |
| 1556385  | HSMG-C190       | AVT   | 2    | Green          | Water clear              | 2.2            | 20           | 15 @ 20             | 570                  | 130                      | *       | .12 | .10 | .08  |
| 1556211  | HSMC-A100-Q00J1 | AVT   | 3    | Red            | Water clear              | 1.9            | 20           | 100 @ 20            | 635                  | 120                      | *       | .15 | .12 | .10  |
| 1585101  | HSMC-A100-R00J1 | AVT   | 3    | Red            | Water clear              | 3.9            | 20           | 140 @ 20            | 639                  | 120                      | *       | .19 | .15 | .12  |

Blue Part No. = Limited Quantity Available

\* AVT = Avago Technology | JVP = Jameco ValuePro | LIG = Ligitek | LTO = Lite-On | UNI = Unity Opto Technology

Ultra-Bright AllInGaP SMT LEDs continued on next page

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above



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## Surface Mount LEDs (Continued)

### Ultra-Bright AlInGaP Surface Mount LEDs (Continued)

Figure images on previous page Fig. 11

\*Web Code: UBA

\* Order in multiples of 10

| Part No. | Mfr. Part No.   | *Mfr. | Fig. | Emitting Color | Lens/Feature Description | Typical Vf (V) | If Max. (mA) | Iv Typical mcd @ mA | Peak Wavelength (nm) | Viewing Angle (2x Theta) | Pricing |        |        |        |
|----------|-----------------|-------|------|----------------|--------------------------|----------------|--------------|---------------------|----------------------|--------------------------|---------|--------|--------|--------|
|          |                 |       |      |                |                          |                |              |                     |                      |                          | 1       | 10     | 100    | 500    |
| 658339   | MSL-204UYL      | UNI   | 3    | Yellow         | Water clear              | 2.0            | 20           | 120 @ 20            | 592                  | 120                      | *       | \$ .19 | \$ .15 | \$ .12 |
| 1585055  | HSM-A100-Q00J1  | AVT   | 3    | Yellow Amber   | Water clear              | 2.1            | 20           | 100 @ 20            | 592                  | 120                      | *       | .10    | .09    | .08    |
| 1556342  | HSMG-A100-J02J1 | AVT   | 3    | Yellow Green   | Water clear              | 2.2            | 20           | 18 @ 20             | 565                  | 120                      | *       | .10    | .09    | .08    |
| 1585063  | HSM-A101-S3WJ1  | AVT   | 3    | Amber          | Water clear              | 2.1            | 20           | 220 @ 20            | 592                  | 120                      | *       | .15    | .12    | .10    |
| 692537   | MSL-204G        | UNI   | 3    | Green          | Water clear              | 2.1            | 20           | 120 @ 20            | 570                  | 120                      | *       | .13    | .12    | .10    |
| 658355   | MSL-204MB       | UNI   | 3    | Blue           | Water clear              | 3.5            | 20           | 120 @ 20            | 468                  | 120                      | *       | .49    | .45    | .39    |
| 2075671  | LTST-C191AKT    | LTO   | 8    | Orange         | Water clear              | 2.1            | 20           | 2 @ 10              | 610                  | 130                      | *       | .05    | .04    | .03    |
| 2075680  | LTST-C191KSKT   | LTO   | 8    | Yellow         | Water clear              | 2.1            | 20           | 4.5 @ 10            | 585                  | 130                      | *       | .07    | .06    | .05    |
| 2075612  | LTST-C171KEKT   | LTO   | 9    | Red            | Water clear              | 2.0            | 20           | 50 @ 20             | 632                  | 130                      | *       | .07    | .06    | .05    |
| 2075639  | LTST-C171KSKT   | LTO   | 9    | Yellow         | Water clear              | 2.0            | 30           | 60 @ 20             | 588                  | 130                      | *       | .07    | .06    | .05    |
| 2075621  | LTST-C171KYKT   | LTO   | 9    | Amber Yellow   | Water clear              | 2.0            | 30           | 50 @ 20             | 595                  | 130                      | *       | .07    | .06    | .05    |
| 2075663  | LTST-C190KFKT   | LTO   | 9    | Amber          | Water clear              | 2.0            | 30           | 60 @ 20             | 611                  | 130                      | *       | .05    | .04    | .03    |
| 2075701  | LTST-C930AKT    | LTO   | 10   | Red Orange     | Water clear              | 2.0            | 30           | 1050 @ 10           | 621                  | 25                       | *       | .07    | .06    | .05    |
| 2081967  | LAW57B-GX-2     | ◆     | 11   | Amber*         | Water clear              | 2.2            | 400          | 6500 @ 400          | 614                  | 120                      | *       | .95    | .85    | .75    |

\* Heat sink required; use P/N 326596 heat sink, P/N 236823 compound and P/N 1582575 insulator pg 24



### Conxrite Locking Header

This locking header provides positive locking between PCB and cable assembly.

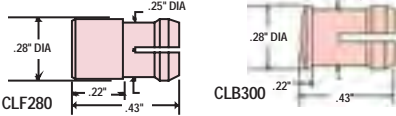
\*Web Code: KAL

| Part No. | Mfr. Part No. | Description      | 1      | 10     | 100    | 500    |
|----------|---------------|------------------|--------|--------|--------|--------|
| 417682   | CNXH03NTP     | Horizontal 3-pin | \$ .29 | \$ .25 | \$ .19 | \$ .17 |



### T1 3/4 Ciplite® LED Lens Mounts

Standard CLF280 and low profile CLB300 provide 180° viewing angle. Colors: red and clear.



\*Web Code: UAK

\* Order in multiples of 10

| Part No. | Mfr. Part No. | Size   | Color | 1   | 10     | 100    | 1000   |
|----------|---------------|--------|-------|-----|--------|--------|--------|
| 417818   | SML190RTP     | T1     | Red   | *   | \$ .19 | \$ .15 | \$ .12 |
| 29612    | CLF280RTP     | T1 3/4 | Red   | .29 | .25    | .21    | .19    |
| 14277    | CLF280CTP     | T1 3/4 | Clear | .29 | .25    | .19    | .16    |
| 124927   | CLB300CTP     | T1 3/4 | Clear | .29 | .25    | .21    | .19    |

### Conxrite Pre-Wired Solderless LED Interconnect

Designed to replace labor-intensive hard-wiring of panel-mounted LEDs to PCB.



\*Web Code: UAK

For complete specifications see [www.Jameco.com](http://www.Jameco.com)

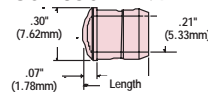
| Part No. | Mfr. Part No.     | LED Size     | Termination (leads)     | Length | 1      | 10     | 100    |
|----------|-------------------|--------------|-------------------------|--------|--------|--------|--------|
| 417391   | CNXBE2124         | T1 (3mm)     | 2-pin connector         | 24"    | \$1.95 | \$1.75 | \$1.49 |
| 417501   | CNXCE2112         | T1 3/4 (5mm) | Stripped leads (2)      | 12"    | 1.49   | 1.35   | 1.19   |
| 143037   | CNXCE2108         | T1 3/4 (5mm) | 2-pin connector         | 8"     | 1.95   | 1.75   | 1.59   |
| 417463   | CNXCE2112         | T1 3/4 (5mm) | 2-pin connector         | 12"    | 1.49   | 1.25   | .99    |
| 143053   | CNXCE2118         | T1 3/4 (5mm) | 2-pin connector         | 18"    | 2.49   | 2.25   | 1.95   |
| 673820   | CNX440-X02-4-1-08 | T1 3/4 (5mm) | 2-pin conn. (twist fit) | 8"     | 2.49   | 2.25   | 1.95   |
| 417607   | CNXDX2612         | T1 3/4 (5mm) | Stripped leads (3)      | 12"    | 1.25   | .99    | .79    |
| 417615   | CNXDX2618         | T1 3/4 (5mm) | Stripped leads (3)      | 18"    | 1.29   | 1.09   | .89    |
| 417535   | CNXDF2604         | T1 3/4 (5mm) | 3-pin connector         | 4"     | 1.39   | 1.25   | 1.09   |
| 417560   | CNXDF2618         | T1 3/4 (5mm) | 3-pin connector         | 18"    | 1.49   | 1.25   | 1.09   |
| 417578   | CNXDF2624         | T1 3/4 (5mm) | 3-pin connector         | 24"    | 1.59   | 1.35   | 1.19   |



### Panel Lens for PCB Mounted T1 3/4 LED

T1 3/4 size low-profile panel lenses provide 180° viewing angle.

\*Web Code: UAK



| Part No. | Mfr. Part No. | Size   | Color | Length | 1      | 10     | 100    | 1000   |
|----------|---------------|--------|-------|--------|--------|--------|--------|--------|
| 143132   | CMC321CTP     | T1 3/4 | Clear | .33"   | \$ .29 | \$ .25 | \$ .21 | \$ .19 |

### T1 & T1 3/4 LED Mounting Hardware

\*Web Code: KAL

- Color: black
- Order in multiples of 10



| Part No. | Mfr. P/N | Mfr. | Description      | Mounting Hole Dia. | Panel Thickness | Pricing |        |        |  |
|----------|----------|------|------------------|--------------------|-----------------|---------|--------|--------|--|
|          |          |      |                  |                    |                 | 10      | 100    | 1000   |  |
| 95513    | LMH100   | LIG  | T1 snap-in       | .185"              | up to .070"     | \$ .12  | \$ .10 | \$ .08 |  |
| 23077    | LMH200   | LIG  | T1 3/4 ring/clip | .257"              | up to .125"     | .15     | .14    | .12    |  |
| 95521    | LMH250   | LIG  | Rect. snap in    | .306" x .202"      | up to .092"     | .09     | .08    | .07    |  |
| 379815   | MCD-10MM | JVP  | 10mm snap in     | .539"              | up to .1025"    | .25     | .21    | .15    |  |

### T1 & T1 3/4 LEDs & LED Mounting Hardware Kit (560 pcs.)

- Includes:
- 20-drawer component cabinet (319600), 20 clear plastic drawers (319601), 20 clear dividers (319611), pg 173 and labels
  - 10 ea. standard-output LEDs (34657, 114673), pg 25, 114681, 34606, 34825, 34711, 104248, 34690, 34673, pg 26 & (34761, 104256, 11359), pg 27 and LED lens mount (14277), left
  - 100 ea. LEDs (202471), pg 25 & 2006730, pg 26
  - 100 ea. LED mounting hardware (95513, 23077), above

SAVE \$14



| Part No. | Description                       | Wt. (lbs.) | 1       | 5       |
|----------|-----------------------------------|------------|---------|---------|
| 84996    | 560-piece LEDs & LED hardware kit | 5.0        | \$69.95 | \$59.95 |

### PHILIPS Xitanium LED Driver Module

Xitanium drivers from Advance deliver solid performance and reliability for 12V lighting system.

- UL and CSA class 2 rated
- UL IP66 rated for outdoor use
- Low temperature -40°C • High temperature +60°C

| Part No. | Description         | 1       | 5       | 25      |
|----------|---------------------|---------|---------|---------|
| 2120233  | 12VDC/1A LED driver | \$19.95 | \$17.95 | \$15.95 |

### Ledtech 1" x 1.56" LED Backlight

- IC compatible • D.C. forward current: 30mA
- Peak wavelength: 567nm @ 20mA • View angle: 52°
- Forward voltage: (typical) 4.2V @ 20mA; (max) 6.0V @ 20mA
- Luminous intensity: (min) 14.9mcd @ 20mA; (typical) 24.8mcd @ 20mA

| Part No. | Mfr. Part No. | LED Material | Emitting Color | Lens Color | 1      | 10     | 100    |
|----------|---------------|--------------|----------------|------------|--------|--------|--------|
| 302535   | LT1F24-A2-S8  | GaP          | Green          | G.C. ...   | \$1.49 | \$1.25 | \$ .95 |

### JAMECO BenchPro 2-150mA T1 & T1 3/4 LED Tester

Plug any loaded LED into any 2 rows of sockets. 13.1" spaced positions test T1/T1 3/4 LEDs from 2 to 30mA; 13.2" spaced positions test larger footprint (high flux) LEDs from 20 to 150mA. Uses 9V battery (P/N 198731 - sold separately)

| Part No. | Description | Size (L x W x H)   | 1      | 5      | 25     |
|----------|-------------|--------------------|--------|--------|--------|
| 355805   | LED tester  | 3.1" x 2.2" x 0.9" | \$9.95 | \$8.95 | \$7.95 |

\* AVT = Avago | JVP = Jameco ValuePro | LIG = Ligitek | LTO = Lite-On | UNI = Unity Opto Tech. | ◆ Manufacturer Varies

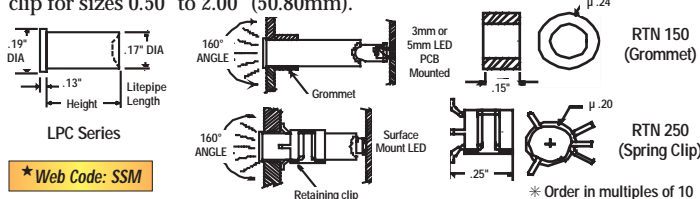
RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 197.





## Litepipes For Standard and Surface-Mount LEDs

Designed to produce 160° viewing angle of transmitted light from PCB mounted LEDs. Accommodates both 0.119" (3mm) and surface mount LEDs. Litepipes are able to display single color devices or mix multi-colored LEDs into a single color. Sizes from 0.200" (5.08mm) to 2.00" (50.80mm). Use RTN grommet for sizes 0.20" thru 0.50" and RTN spring clip for sizes 0.50" to 2.00" (50.80mm).



\*Web Code: SSM

| Part No. | Height | 1 | 10     | 100    |
|----------|--------|---|--------|--------|
| 418108   | 0.20"  | * | \$ .19 | \$ .15 |
| 418116   | 0.22"  | * | .19    | .15    |
| 418132   | 0.26"  | * | .19    | .15    |
| 418141   | 0.28"  | * | .19    | .15    |
| 418159   | 0.30"  | * | .19    | .15    |
| 418167   | 0.32"  | * | .19    | .15    |
| 418183   | 0.36"  | * | .19    | .15    |
| 418191   | 0.38"  | * | .19    | .15    |
| 418212   | 0.42"  | * | .19    | .15    |
| 418239   | 0.46"  | * | .19    | .15    |
| 418247   | 0.48"  | * | .19    | .15    |

Order in multiples of 10

| Part No. | Mfr. Part No. | Description | 10     | 100    | 1000   |
|----------|---------------|-------------|--------|--------|--------|
| 418407   | RTN150        | Grommet     | \$ .05 | \$ .04 | \$ .03 |
| 418415   | RTN250        | Spring clip | .05    | .04    | .03    |



## 3 & 10W Constant Current LED Drivers

- Type: AC - DC
- Input voltage: 100-240VAC @ 50-60Hz
- 3-watt LED drivers can drive 2 to 8 1W LEDs or 1 to 3 3W LEDs
- 10-watt LED drivers can drive 3 to 8 1W LEDs
- Operating temperature range: -20°C to 40°C
- UL/CUL/CE approved
- 2006852/2006861: 20AWG, 3.9"L wires
- 2006879/2006887: Plug in type, 7ft. cable w/ 2.1mm x 5.5mm center positive

| Part No. | Mfr. Part No. | Description        | Output Volt./Curr. | 1       | 5       |
|----------|---------------|--------------------|--------------------|---------|---------|
| 2006861  | LD-CU7021AF   | 3-watt LED driver  | 3-21VDC @ 700mA    | \$18.95 | \$16.95 |
| 2006887  | LD-PI7021AF   | 3-watt LED driver  | 3-21VDC @ 700mA    | 18.95   | 16.95   |
| 2006852  | LD-CU3536AF   | 10-watt LED driver | 3-36VDC @ 350mA    | 17.95   | 15.95   |
| 2006879  | LD-PI3536AF   | 10-watt LED driver | 3-36VDC @ 350mA    | 17.95   | 15.95   |



## Dual CCFL Kits

This kit is a dual CCFL that comes with an inverting power supply (12VDC @ 5mA input; 620V output), wire harnesses and connectors for easy set-up.

- Lamp diameter: 3mm (protected inside a clear acrylic tube) • Length per lamp: 300mm (12")
- Average lifespan: 30,000 hours
- Brightness: 30,000cd • Supply voltage: 620V
- Lamp current: 5mA

| Part No. | Mfr. Part No. | Color        | 1       | 5       |
|----------|---------------|--------------|---------|---------|
| 2006975  | CCFL2W        | White        | \$14.95 | \$13.49 |
| 2006983  | CCFL2R        | Red          | 13.95   | 12.49   |
| 2007003  | CCFL2UV       | Ultra violet | 14.95   | 13.49   |
| 2007011  | CCFL2BU       | Blue         | 14.95   | 13.49   |

See page 191 for Flashing LED Kits

\*Web Code: CCF



## MCD

## High Power LEDs

- Superior high-flux output and high luminance
- We offer the Lambertian or 'High Dome' LED that has a high hemispherical dome with a wider 140° viewing angle. The high dome series project a wider but clearer light beam
- Use heat sink P/N 696714 and thermal compound P/N 236823
- Use insulator P/N 1582575 to isolate heat sink from case
- ESD protection

| Part No. | Mfr. Part No.     | Power (W) | Color      | Volt. @ Current (Vf @ If) | Luminous Flux (lm) | Viewing Angle (°) | Pricing |        |        |
|----------|-------------------|-----------|------------|---------------------------|--------------------|-------------------|---------|--------|--------|
| 2006895  | L-HP1PW           | 1         | White      | 3.2 @ 350mA               | 40                 | 90                | \$7.95  | \$7.25 | \$6.49 |
| 2096780  | MCDL-L20-350HPCW  | 1         | White      | 3.2 @ 350mA               | 90                 | 140               | 6.95    | 6.25   | 5.49   |
| 2096843  | MCDL-L20-350HPCWS | 1         | White      | 3.2 @ 350mA               | 90                 | 140               | 6.95    | 6.25   | 5.49   |
| 2096798  | MCDL-L20-350HPWW  | 1         | Warm white | 3.2 @ 350mA               | 86                 | 140               | 6.95    | 6.25   | 5.49   |
| 2096851  | MCDL-L20-350HPWWS | 1         | Warm white | 3.2 @ 350mA               | 86                 | 140               | 7.95    | 6.95   | 6.25   |
| 2096819  | MCDL-L20-350HPUY  | 1         | Yellow     | 3.2 @ 350mA               | 40                 | 140               | 5.95    | 5.49   | 4.95   |
| 2096886  | MCDL-L20-350HPUYS | 1         | Yellow     | 3.2 @ 350mA               | 40                 | 140               | 6.95    | 6.25   | 5.49   |
| 2096827  | MCDL-L20-350HPPG  | 1         | Green      | 3.6 @ 350mA               | 70                 | 140               | 6.95    | 6.25   | 5.49   |
| 2096974  | MCDL-L20-350HPPGS | 1         | Green      | 3.6 @ 350mA               | 70                 | 140               | 7.95    | 6.95   | 6.25   |
| 2006908  | L-HP3PW           | 3         | White      | 3.2 @ 1A                  | 120                | 90                | 14.95   | 13.49  | 11.95  |

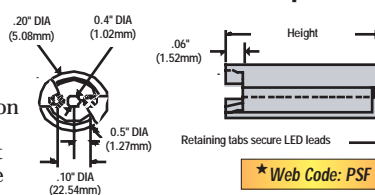
† Represents Star form factor with heat sink



\*Web Code: HPL

## LED PCB Standoffs for 2 & 3-Lead Components

Designed for PCB mounting of multi-lead devices (e.g. LEDs, resistors, capacitors, diodes, and IR emitter/detector lamps). Provide lead separation, retention and lateral stability, and height control. Standoffs vary in height from 0.12" to 1.00". Standoffs are UL94V0 material.



\*Web Code: PSF

Order in multiples of 10

| Part No. | Height | 10     | 100    | 1000   |
|----------|--------|--------|--------|--------|
| 418431   | 0.14"  | \$ .05 | \$ .04 | \$ .03 |
| 418458   | 0.18"  | .05    | .04    | .03    |
| 418474   | 0.22"  | .05    | .04    | .03    |
| 418503   | 0.26"  | .05    | .04    | .03    |
| 418511   | 0.28"  | .05    | .04    | .03    |
| 418520   | 0.30"  | .05    | .04    | .03    |
| 418546   | 0.34"  | .05    | .04    | .03    |
| 418554   | 0.36"  | .05    | .04    | .03    |
| 418589   | 0.42"  | .05    | .04    | .03    |
| 418597   | 0.44"  | .05    | .04    | .03    |

## LED Light Strip Modules

\*Web Code: BDZ

- Applications: running light or light source for under cabinets, closets, RVs & enclosures



| Part No. | Mfr.     | Mfr. Part No.  | Color  | Viewing Angle | 1      | 5      | 25     |
|----------|----------|----------------|--------|---------------|--------|--------|--------|
| 683235   | ValuePro | LS1255-150A112 | Yellow | 100°          | \$9.95 | \$8.95 | \$7.95 |
| 1586171  | Ledtech  | UY19209-627    | White  | 120°          | 21.95  | 19.95  | 17.95  |



## Power LED Driver Modules

- Delivers accurate constant current required by most high power LEDs
- High efficiency due to switch mode principle
- Built-in rectifier for easy connection to AC source
- Input voltage: 6-12VAC/9-18VDC
- Power consumption: 650mA max.
- Size: 1.8"L x 1.2"W x 0.64"H • Short-circuit protected
- Also suited as fixed current NiCd/NiMH battery charge circuit
- Constant current source:
- 2006916: 350mA, compatible with up to 4 L-HP1P series power LEDs
- 2006924: 700mA, compatible with up to 3 L-HP3P series power LEDs
- 2006932: 350mA or 700mA



| Part No. | Mfr. Part No. | Description              | 1       | 5       |
|----------|---------------|--------------------------|---------|---------|
| 2006916  | VM143/1W      | 1-watt module            | \$29.95 | \$26.95 |
| 2006924  | VM143/3W      | 3-watt module            | 35.95   | 32.35   |
| 2006932  | K8071         | 1-watt/3-watt module kit | 15.95   | 14.49   |

# LED Modules & Flexible Cable LED Strips

3 LEVELS OF SAVINGS  
NAME BRANDS HOUSE BRANDS FACTORY OVERRUN

Optos

## Ultra Brite LED Modules with Built-In LED Drivers

An all-in-one solution to your high power LED lighting needs! With its built-in LED Drivers, the module can be connected directly to any 8-30V battery or power supply without the need for an external LED Driver Module. Adding to its versatility, on-board current regulation circuitry allows the module to operate flawlessly without the need of a heat sink. Compact in size at 1" x 1.25" and linkability (up to 30 modules) make it ideal for unlimited home, commercial, industrial, and hobby project applications.

\* Web Code: LEM



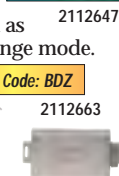
| Part No. | Mfr. Part No.  | #Leds | Power | Volt | Color | Viewing Angle | Im | 1      | 5      |
|----------|----------------|-------|-------|------|-------|---------------|----|--------|--------|
| 2113025  | LHA-02B30-N-00 | 2     | 120mA | 8-30 | White | 120°          | 29 | \$8.95 | \$7.95 |
| 2113033  | LHA-02B30-G-00 | 2     | 120mA | 8-30 | Green | 120°          | 22 | 8.95   | 7.95   |
| 2113041  | LHA-06B30-N-00 | 6     | 360mA | 8-30 | White | 120°          | 87 | 11.95  | 10.95  |
| 2113050  | LHA-06B30-R-00 | 6     | 360mA | 8-30 | Red   | 120°          | 29 | 11.95  | 10.95  |
| 2113068  | LHA-06B30-B-00 | 6     | 360mA | 8-30 | Blue  | 120°          | 17 | 12.95  | 11.49  |
| 2113076  | LHA-06B30-G-00 | 6     | 360mA | 8-30 | Green | 120°          | 65 | 12.95  | 11.49  |

## Flexible Cable RGB LED Strips

This flexible cable LED strip contains 75 surface mount LEDs that have 3 colors in the same LED - red, green, and blue. The strip can be cut into 3 LED sections to fit your lighting application. Typical applications are architectural lightings, interior lighting, hallways, under cabinet lighting, boats, automobiles and many other applications. With the LED strip connected to the RGB controller, you can provide different lighting modes such as flashing mode (fast or slow), slow fade out, and color change mode.

- Total strip length: 8 feet (P/N 2112647)
- 75 surface mount LEDs in red, green, blue color outputs
- Current requirement: 3A
- Input voltage 12V @ 3 Amps (P/N 1586146)

\* Web Code: BDZ



| Part No. | Mfr. Part No.     | Description                   | 1       | 5       | 25      |
|----------|-------------------|-------------------------------|---------|---------|---------|
| 2112647  | VLS5060RGB150-8FT | 75 LED's, 8 feet LED strip .. | \$64.95 | \$58.95 | \$52.95 |
| 2112655  | RGB-Connect       | RGB cable, 12" wire .....     | 1.95    | 1.75    | 1.59    |
| 2112663  | RGB-Controller    | RGB controller with remote    | 49.95   | 44.95   | 39.95   |

inspired LED

## Integrated LED Modules

Inspired LED features an economical modular designed product line that is easy to install and expand. The LED strips are light weight and low profile, so they are perfect for under kitchen cabinets, backlighting flat screen TVs, retail display cases, restaurant and bar lighting, or accent lighting for art, shelving, and moldings. These LEDs last up to 10 years and use a fraction of the energy as incandescent bulbs.

- Ultra low power consumption
- Lasts up to 25 times longer than conventional lighting
- No tools required for installation (optional screw mounting included)
- Power up to 150 LEDs with a 1A power supply
- Warm White LED option mimics incandescent light (great for kitchens)
- Cool White LED option provides additional light output without the blue light tint, perfect for office or study task lighting and display cases
- All products are interchangeable. Mix and match, connect, power-up, make a custom system, or purchase an easy-to-assemble kit

NEW  
MARKED IN PINK



2119829

## Power Supplies, Switches, Cables and Accessories

| Part No. | Mfr. P/N | Description                                       | 1      | 10     | 100    |
|----------|----------|---|--------|--------|--------|
| 2119829  | 4840     | 12V power supply, 1A, mini 1.8"L x 1.3"W x 0.95"H | \$9.95 | \$8.95 | \$7.95 |
| 2119837  | 4841     | 12V power supply, 1A, standard .....              | 9.95   | 8.95   | 7.95   |
| 2119945  | 4822     | 12V power supply, 2A, standard .....              | 19.95  | 17.95  | 15.95  |
| 2119845  | 4775     | Switch (inline) 2.6"L x 0.7"W x 0.5"H .....       | 4.95   | 4.49   | 3.95   |
| 2119853  | 4833     | Switch, inline dial dimmer (white) .....          | 19.95  | 17.95  | 15.95  |
| 2119861  | 4821     | Switch, inline 4-position dimmer (black) .....    | 19.95  | 17.95  | 15.95  |
| 2119870  | 4804     | 4" cable 22 AWG, 1.3mm female connector .....     | 2.95   | 2.49   | 2.25   |
| 2119888  | 4771     | 3" cable 22 AWG, 1.3mm female connector .....     | 3.95   | 3.49   | 2.95   |
| 2119896  | 4772     | 6" cable 22 AWG, 1.3mm female connector .....     | 4.95   | 4.49   | 3.95   |
| 2119934  | 4773     | 12" cable 22 AWG, 1.3mm female connector .....    | 5.95   | 5.49   | 4.95   |
| 2119942  | 4777     | 4" cable extender (with 2 male connectors) .....  | 3.95   | 3.49   | 2.95   |
| 2119959  | 4774     | Cable clamps for flex strips (10/pkg.) .....      | 2.95   | 2.49   | 2.25   |

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 197.

JKL

## Festoon LEDs - 12V & 24V

- Voltage and current: LE-0603-02; ±12VDC @ 20mA; LE-0603-04; ±24VDC @ 12mA
- Low heat
- Low power consumption with high intensity
- Scratch and shock resistant glass encapsulated
- Size: 43mm (1.7") L x 10.5mm (0.41") Dia.



Shown with Socket (sold separately)

## Lamps

\* Web Code: FES

| Part No. | Mfr. Part No. | Voltage @ Current | Color  | Lumens | 1      | 10     | 50     |
|----------|---------------|-------------------|--------|--------|--------|--------|--------|
| 2113308  | LE-0603-02R   | 12VDC @ 20mA      | Red    | 2.0    | \$2.75 | \$2.49 | \$2.25 |
| 2113359  | LE-0603-04R   | 24VDC @ 12mA      | Red    | 2.0    | 2.75   | 2.49   | 2.25   |
| 2113295  | LE-0603-02Y   | 12VDC @ 20mA      | Yellow | 2.0    | 2.75   | 2.49   | 2.25   |
| 2113341  | LE-0603-04Y   | 24VDC @ 12mA      | Yellow | 2.0    | 2.75   | 2.49   | 2.25   |
| 2113287  | LE-0603-02G   | 12VDC @ 20mA      | Green  | 9.0    | 4.95   | 4.49   | 3.95   |
| 2113332  | LE-0603-04G   | 24VDC @ 12mA      | Green  | 9.0    | 4.95   | 4.49   | 3.95   |
| 2113279  | LE-0603-02B   | 12VDC @ 20mA      | Blue   | 2.0    | 4.95   | 4.49   | 3.95   |
| 2113324  | LE-0603-04B   | 24VDC @ 12mA      | Blue   | 2.0    | 4.95   | 4.49   | 3.95   |
| 2113261  | LE-0603-02W   | 12VDC @ 20mA      | White  | 10.0   | 4.95   | 4.49   | 3.95   |
| 2113316  | LE-0603-04W   | 24VDC @ 12mA      | White  | 10.0   | 4.95   | 4.49   | 3.95   |

## Socket

| Part No. | Mfr. Part No. | Description | 1      | 10     | 50     |
|----------|---------------|-------------|--------|--------|--------|
| 2113367  | 2910F-47      | Socket      | \$ .69 | \$ .59 | \$ .55 |

## Silicone Sealed Flexible LED Strips

Sealed in silicone gel, this ultra flexible, waterproof, and extra durable super bright LED strip can be bent to any shape and angle to fit your ideal lighting application. For indoor and outdoor use, this can be used for lighting up signs, light boxes, boats, motorcycles, automobiles, airplanes, under cabinets, hallways, architectural lighting, and much more.

- Input volt.: 12V @ 640mA (P/N 2006887)
- 96 LEDs on each 37.7" long strip
- Color: white translucent silicone gel casing
- Simple to install and clean



\* Web Code: BDZ

| Part No. | Mfr. Part No. | Color | Brightness (mcd) | Wavelength (nm) | 1       | 5       | 25      |
|----------|---------------|-------|------------------|-----------------|---------|---------|---------|
| 2112671  | FS-Red        | Red   | 500              | 630 .....       | \$24.95 | \$22.95 | \$20.95 |
| 2112698  | FS-Blue       | Blue  | 750              | 427 .....       | 24.95   | 22.95   | 20.95   |
| 2112719  | FS-White      | White | 3500             | — .....         | 29.95   | 26.95   | 23.95   |

## LED Panels

- 9 LED size: 10.5"L x .75"W x .38"H
- 21 LED size: 8.5"L x .63"W x .30"H

| Part No. | Mfr. P/N | Description   | 1      | 5      | 100    |
|----------|----------|---|--------|--------|--------|
| 2119967  | 4819     | 1W - 9 LED under cabinet light panels, warm white       | \$9.95 | \$8.95 | \$7.95 |
| 2119975  | 4820     | 1W - 9 LED under cabinet light panels, cool white ..... | 9.95   | 8.95   | 7.95   |
| 2119983  | 4823     | 2W - 21 LED display panel, warm white .....             | 12.95  | 11.49  | 9.95   |
| 2119991  | 4824     | 2W - 21 LED display panel, cool white .....             | 12.95  | 11.49  | 9.95   |
| 2119785  | 4829     | Warm white under cabinet kit, ten 21 LED panels         | 159.95 | 144.95 | 129.95 |
| 2119793  | 4830     | Cool white under cabinet kit, ten 21 LED panels         | 159.95 | 144.95 | 129.95 |

## Flexstrips

2119801

| Part No. | Mfr. P/N | Description                                    | 1       | 5       | 25      |
|----------|----------|--|---------|---------|---------|
| 2119801  | 4794-01  | Super bright warm white flexstrip, 1 ft .....  | \$14.95 | \$13.49 | \$11.95 |
| 2119805  | 4794-05  | Super bright warm white flexstrip, 5 ft .....  | 28.95   | 25.95   | 22.95   |
| 2119810  | 4794-10  | Super bright warm white flexstrip, 10 ft ..... | 41.95   | 39.95   | 37.95   |
| 2119901  | 4795-01  | Super bright cool white flexstrip, 1 ft .....  | 14.95   | 13.49   | 11.95   |
| 2119905  | 4795-05  | Super bright cool white flexstrip, 5 ft .....  | 28.95   | 25.95   | 22.95   |
| 2119910  | 4795-10  | Super bright cool white flexstrip, 10 ft ..... | 44.95   | 39.95   | 35.95   |
| 2120001  | 4796-01  | Bright warm white flexstrip, 1 ft .....        | 11.95   | 10.95   | 9.95    |
| 2120005  | 4796-05  | Bright warm white flexstrip, 5 ft .....        | 23.95   | 21.49   | 18.95   |
| 2120010  | 4796-10  | Bright warm white flexstrip, 10 ft .....       | 37.95   | 33.95   | 29.95   |
| 2120101  | 4797-01  | Bright cool white flexstrip, 1 ft .....        | 11.95   | 10.95   | 9.95    |
| 2120105  | 4797-05  | Bright cool white flexstrip, 5 ft .....        | 23.95   | 21.49   | 18.95   |
| 2120110  | 4797-10  | Bright cool white flexstrip, 10 ft .....       | 37.95   | 33.95   | 29.95   |

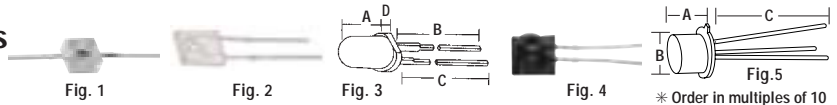
Actual lengths are ±1" to allow for connector \* Use 2 amp power supply

# Infrared Emitters, Detectors & LED Displays

## Infrared & Visible Light Emitters & Detectors

- Use for remote control and/or for fiber optics

★ Web Code: VAP



| Part No. | Product No.    | Mfr. | Fig. | Description                               | Size   | Diameter<br>Inch/mm | Dimensions (Inches) |      |      |      | Vf @ If          | nm  | mWatts | Pricing |        |        |
|----------|----------------|------|------|---|--------|---------------------|---------------------|------|------|------|------------------|-----|--------|---------|--------|--------|
|          |                |      |      |   |        |                     | A                   | B    | C    | D    |                  |     |        | 1       | 10     | 100    |
| 2099403  | PS5022         | STA  | 1    | Phototransistor                           | Dome   | 0.06/1.7            | 0.13                | 0.35 | 0.35 | —    | 5.0 @ 20mA       | 880 | 1      | *       | \$ .15 | \$ .12 |
| 790057   | LTE-302        | LTO  | 2    | Infrared emitter diode (GaAs) side look   | Dome   | 0.06/1.5            | 0.23                | 0.63 | 0.63 | 0.18 | 1.2 @ 20mA       | 940 | 40     | *       | .19    | .15    |
| 112150   | LIR2043        | LIG  | 3    | Infrared emitter diode (GaAs)             | T1     | 0.125/3             | 0.18                | 0.95 | 0.98 | 0.03 | 1.2 @ 20mA       | 940 | 5      | *       | .19    | .15    |
| 372710   | UT0383-41-940  | JVP  | 3    | Infrared emitter diode (GaAs)             | T1     | 0.125/3             | 0.16                | 0.88 | 0.94 | 0.04 | 1.3 @ 50mA       | 940 | 13     | .29     | .25    | .19    |
| 1950825  | L-34F3CS       | ◆    | 3    | Infrared emitter diode (GaAs)             | T1     | 0.125/3             | 0.20                | 1.00 | 1.06 | 0.04 | 1.2 @ 20mA       | 940 | 80     | .39     | .35    | .29    |
| 112176   | LPT2023        | LIG  | 3    | Infrared phototransistor                  | T1     | 0.12/3              | 0.18                | 0.95 | 0.98 | 0.03 | 30 @ 0.1A        | 940 | 100    | .39     | .35    | .29    |
| 1872265  | OP505A         | OPT  | 3    | Infrared silicon phototransistor          | T1     | 0.125/3.2           | 0.20                | 0.50 | 0.50 | 0.03 | 30VBRCEO @ 100µA | 850 | 100    | .79     | .65    | .59    |
| 1950649  | BPV22NF(L)     | OPT  | 4    | High speed photo diode                    | T1 3/4 | 0.195/5             | 0.24                | 1.00 | 1.00 | —    | 1.0 @ 50mA       | 940 | 215    | .65     | .59    | .49    |
| 1623349  | SFH484-2       | SYL  | 3    | Infrared emitter diode                    | T1 3/4 | 0.197/5             | 0.30                | 0.50 | 1.14 | 1.07 | 1.5 @ 100mA      | 880 | 25     | .79     | .69    | .59    |
| 372737   | UT1883-81-880  | JVP  | 3    | Infrared emitter diode (GaAs) water clear | T1 3/4 | 0.200/5             | 0.30                | 0.88 | 0.94 | 0.04 | 1.5 @ 50mA       | 880 | 16     | .35     | .29    | .25    |
| 372745   | UT1885-81-880  | JVP  | 3    | Infrared emitter diode (GaAs) blue clear  | T1 3/4 | 0.200/5             | 0.30                | 0.88 | 0.94 | 0.04 | 1.5 @ 50mA       | 880 | 16     | .39     | .35    | .29    |
| 1872151  | OP290A         | OPT  | 3    | Infrared emitter diode                    | T1 3/4 | 0.195/5             | 0.30                | 0.75 | 1.00 | 0.04 | 4.0 @ 1.5A       | 890 | 333    | 1.09    | .89    | .69    |
| 106526   | LVIF3333       | LIG  | 3    | Infrared emitter diode (GaAs)             | T1 3/4 | 0.200/5             | 0.34                | 0.78 | 0.84 | 0.04 | 1.2 @ 20mA       | 940 | 8      | *       | .19    | .15    |
| 372762   | UT1883-91-940  | JVP  | 3    | Infrared emitter diode (GaAs)             | T1 3/4 | 0.200/5             | 0.30                | 0.88 | 0.94 | 0.04 | 1.3 @ 50mA       | 940 | 16     | .35     | .29    | .19    |
| 1950622  | TSHA5502       | VSH  | 3    | Infrared emitter diode (GaAlAs)           | T1 3/4 | 0.200/5             | 0.30                | 0.97 | 1.04 | 0.04 | 1.5 @ 1mA        | 870 | 210    | .59     | .49    | .39    |
| 2100224  | LTE-3371LT     | LTO  | 3    | Infrared emitter diode (GaAlAs)           | T1 3/4 | 0.197/5             | 0.30                | 0.98 | 1.02 | 0.04 | 1.25 @ 50mA      | 940 | 150    | .39     | .35    | .29    |
| 373001   | UT1893-91-0125 | JVP  | 3    | Infrared phototransistor                  | T1 3/4 | 0.200/5             | 0.34                | 0.88 | 0.94 | 0.04 | 30 @ 0.1A        | 870 | 20     | .29     | .25    | .19    |
| 112169   | UT1893-82-0125 | LED  | 3    | Infrared phototransistor                  | T1 3/4 | 0.200/5             | 0.31                | 1.05 | 1.10 | 0.04 | 30 @ 0.1A        | 940 | 20     | .35     | .29    | .25    |
| 1872441  | OP999          | OPT  | 3    | PIN silicon photodiode                    | T1 3/4 | 0.205/5.3           | 0.31                | 0.69 | 0.75 | 0.04 | 1.2 @ 1mA        | 200 | 100    | .99     | .89    | .79    |
| 120221   | BPW77NA        | ◆    | 5    | NPN phototransistor                       | TO-18  | 0.18/4.69           | 0.24                | 0.19 | 0.52 | 0.01 | 70VCEO @ 50mA    | 850 | 250    | 1.95    | 1.75   | 1.49   |

\* Order in multiples of 10

Optos

## 7 & 14-Segment LED Displays

★ Web Code: PBW

### Soldering:

- Soldering bath: not more than 5 seconds @ 260°C
- Soldering iron: not more than 3 seconds @ 300°C under 30W



### Single Digit 7-Segment Numeric LED Displays

| Part No. | Manufacturer | Product No.    | Character Height | Illuminated Color | Bus Polarity * | Pins/Leads | Typical Vf @ If (mA) | Typical mcd @ mA | Wavelength nm | Decimal Point # | Pricing |        |        |
|----------|--------------|----------------|------------------|-------------------|----------------|------------|----------------------|------------------|---------------|-----------------|---------|--------|--------|
|          |              |                |                  |                   |                |            |                      |                  |               |                 | 1       | 10     | 100    |
| 1955677  | Lite-On      | LTS-2801AG     | 0.28"            | Green             | CA             | 10         | 2.0 @ 10             | 0.1 @ 5          | 565           | RHDP            | \$ .69  | \$ .59 | \$ .49 |
| 24732    | MCD          | GNS-3011BH-11  | 0.30"            | Red               | CA             | 10         | 1.9 @ 20             | 0.3 @ 20         | 697           | LHDP/RHDP       | .89     | .79    | .65    |
| 24783    | MCD          | GNS-3011CH-11  | 0.30"            | Red               | CC             | 10         | 2.1 @ 20             | 2.5 @ 20         | 697           | LHDP/RHDP       | .89     | .79    | .65    |
| 24782    | Ligitek      | LSD3211-11     | 0.30"            | Red               | CC             | 10         | 2.1 @ 20             | 2.5 @ 20         | 697           | LHDP/RHDP       | .99     | .89    | .75    |
| 24740    | Ligitek      | LSD3221-11     | 0.30"            | Red               | CA             | 11         | 2.1 @ 20             | 2.5 @ 20         | 697           | LHDP/RHDP       | .99     | .89    | .75    |
| 334984   | ValuePro     | UA3051-12      | 0.30"            | Red               | CA             | 11         | 2.1 @ 20             | 0.8 @ 10         | 700           | RHDP            | .89     | .79    | .65    |
| 334800   | ValuePro     | UC3051-11      | 0.30"            | Red               | CC             | 10         | 2.1 @ 20             | 0.8 @ 10         | 700           | RHDP            | .85     | .75    | .65    |
| 334802   | ValuePro     | UC3041R-11     | 0.30"            | Hi-eff Red        | CC             | 10         | 2.1 @ 20             | 3.3 @ 10         | 635           | RHDP            | .85     | .75    | .65    |
| 1548027  | Avago        | 5082-7611      | 0.30"            | Hi-eff Red        | CA             | 11         | 2.1 @ 20             | 0.8 @ 5          | 635           | RHDP            | 2.75    | 2.49   | 2.25   |
| 789953   | Lite-On      | LSHD-7501      | 0.30"            | AllnGap Red       | CA             | 10         | 2.1 @ 20             | 12 @ 10          | 632           | RHDP            | .99     | .89    | .79    |
| 2082265  | ValuePro     | MAN3620A       | 0.30"            | Orange            | CA             | 11         | 2.5 @ 20             | 3.3 @ 10         | 630           | LHDP            | .79     | .69    | .55    |
| 335011   | ValuePro     | UA3041-12      | 0.30"            | Orange            | CA             | 11         | 2.1 @ 20             | 3.3 @ 10         | 635           | RHDP            | .89     | .79    | .65    |
| 320469   | ValuePro     | UA3031-16-EWRN | 0.30"            | Yellow            | CA             | 11         | 3.0 @ 20             | 2.3 @ 10         | 585           | LHDP/RHDP       | .89     | .79    | .65    |
| 2079226  | Ligitek      | LSD3352-20/RP4 | 0.32"            | Green             | CC             | 14         | 2.1 @ 20             | 3.5 @ 10         | 565           | RHDP            | .89     | .79    | .69    |
| 2075698  | Ligitek      | LSD3362-20/RP4 | 0.32"            | Green             | CA             | 14         | 2.1 @ 20             | 3.5 @ 10         | 565           | RHDP            | .89     | .79    | .69    |
| 1955714  | Lite-On      | LTS-367R       | 0.36"            | Red               | CC             | 10         | 1.7 @ 20             | 0.5 @ 10         | 655           | RHDP            | .89     | .79    | .65    |
| 1955722  | Lite-On      | LTS-4801R      | 0.40"            | Red               | CA             | 10         | 1.7 @ 20             | 0.5 @ 10         | 655           | RHDP            | .89     | .79    | .65    |
| 1955731  | Lite-On      | LTS-4301R      | 0.40"            | Red               | CC             | 10         | 1.7 @ 20             | 0.5 @ 10         | 655           | RHDP            | .89     | .79    | .65    |
| 334844   | ValuePro     | UC4041R-11     | 0.40"            | Hi-eff Red        | CC             | 10         | 2.1 @ 20             | 3.3 @ 10         | 635           | RHDP            | .89     | .79    | .65    |
| 2005411  | Lite-On      | LTS-4980AHR    | 0.40"            | Hi-eff Red        | CC             | 14         | 2.1 @ 20             | 2.2 @ 10         | 635           | RHDP            | .59     | .49    | .39    |
| 335038   | ValuePro     | UA4021-11      | 0.40"            | Green             | CA             | 10         | 2.1 @ 20             | 2.9 @ 10         | 567           | RHDP            | .99     | .89    | .75    |
| 1996081  | Lite-On      | LTS-4510AG     | 0.40"            | Green             | CA             | 14         | 2.1 @ 20             | 2.2 @ 10         | 565           | RHDP            | 1.09    | .99    | .89    |
| 2075719  | Ligitek      | LSD4012-20A    | 0.40"            | Green             | CC             | 14         | 2.1 @ 20             | 2.5 @ 10         | 565           | RHDP            | 1.09    | .99    | .89    |
| 2075727  | Ligitek      | LSD401SBKS-20A | 0.40"            | Blue              | CC             | 14         | 3.5 @ 20             | 12.8 @ 10        | 460           | RHDP            | 2.59    | 2.35   | 2.09   |
| 17209    | MCD          | GNS-5011BH-11  | 0.50"            | Red               | CA             | 10         | 2.1 @ 20             | 0.9 @ 20         | 697           | RHDP            | 1.09    | .99    | .89    |
| 17187    | Ligitek      | LSD5051-11     | 0.50"            | Red               | CC             | 10         | 2.1 @ 20             | 0.9 @ 20         | 697           | RHDP            | 1.09    | .99    | .89    |
| 1955749  | Lite-On      | LTS-5301AR     | 0.56"            | Red               | CA             | 10         | 1.7 @ 20             | 0.6 @ 10         | 655           | RHDP            | .99     | .89    | .79    |
| 1955757  | Lite-On      | LTS-6780R      | 0.56"            | Red               | CC             | 10         | 1.7 @ 20             | 0.6 @ 10         | 655           | RHDP            | .99     | .89    | .79    |
| 335090   | ValuePro     | UA5651-11      | 0.56"            | Red               | CA             | 10         | 2.1 @ 20             | 0.8 @ 10         | 700           | RHDP            | 1.09    | .99    | .89    |
| 2005438  | Lite-On      | LTS-5503       | 0.56"            | AllnGap Red       | CC             | 10         | 2.1 @ 20             | 17 @ 10          | 632           | RHDP            | 1.09    | .99    | .89    |
| 1955765  | Lite-On      | LTS-6760P      | 0.56"            | Bright Red        | CA             | 10         | 2.1 @ 20             | 0.95 @ 10        | 697           | RHDP            | 1.19    | 1.09   | .99    |

\* CA-Common Anode/CC-Common Cathode # LHDP-Left Hand Decimal Point/RHDP-Right Hand Decimal Point Blue P/N = Limited Qty. Avail.

7-Segment Numeric LED Displays continued on next page

\* JVP = Jameco ValuePro | LED = Ledtech | LIG = Ligitek | LTO = Lite-On | OPT = Oplek | STA = Stanley | SYL = Sylvania | VSH = Vishay | ◆ Manufacturer Varies

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# 7 & 14-Segment LED Displays

3 LEVELS OF SAVINGS  
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## 7 & 14-Segment LED Displays (Continued)

### Single Digit 7-Segment Numeric LED Displays (Continued)

See Page 33 for photos

★ Web Code: PBW

| Part No. | Manufacturer | Product No.                  | Character Height | Illuminated Color | Bus Polarity* | Pins/ Leads | Typical Vf @ If (mA) | Typical mcd @ mA | Wavelength nm | Decimal Point # | Pricing |        |        |
|----------|--------------|------------------------------|------------------|-------------------|---------------|-------------|----------------------|------------------|---------------|-----------------|---------|--------|--------|
|          |              |                              |                  |                   |               |             |                      |                  |               |                 | 1       | 10     | 100    |
| 334896   | ValuePro     | UC5641R-11 <sup>R</sup>      | 0.56"            | Hi-eff Red        | CC            | 10          | 2.1 @ 20             | 3.3 @ 10         | 635           | RHDP            | \$ .99  | \$ .89 | \$ .79 |
| 335101   | ValuePro     | UA5641R-11 <sup>R</sup>      | 0.56"            | Hi-eff Red        | CA            | 10          | 2.1 @ 20             | 3.3 @ 10         | 635           | RHDP            | .99     | .89    | .79    |
| 1584335  | Avago        | HDSP-5501-GH000 <sup>R</sup> | 0.56"            | Hi-eff Red        | CA            | 10          | 2.1 @ 20             | 2.8 @ 10         | 635           | RHDP            | 1.95    | 1.75   | 1.49   |
| 104213   | Ligitek      | LSD5124-10 <sup>R</sup>      | 0.56"            | Orange Red        | CA            | 10          | 2.0 @ 20             | 2.4 @ 20         | 635           | RHDP            | .99     | .89    | .79    |
| 335312   | ValuePro     | UA5641-11-EWRN <sup>R</sup>  | 0.56"            | Orange            | CA            | 10          | 2.1 @ 20             | 3.3 @ 10         | 635           | RHDP            | .99     | .89    | .79    |
| 334880   | ValuePro     | UC5641-11-EWRN <sup>R</sup>  | 0.56"            | Orange            | CC            | 10          | 2.1 @ 20             | 3.3 @ 10         | 635           | RHDP            | .99     | .89    | .79    |
| 1955773  | Lite-On      | LTS-6680E                    | 0.56"            | Orange            | CC            | 10          | 2.1 @ 20             | 2.4 @ 10         | 630           | RHDP            | .99     | .89    | .79    |
| 1955790  | Lite-On      | LTS-6860Y                    | 0.56"            | Yellow            | CA            | 10          | 2.1 @ 20             | 2.4 @ 10         | 585           | RHDP            | .99     | .89    | .79    |
| 335127   | ValuePro     | UA5621-11 <sup>R</sup>       | 0.56"            | Green             | CA            | 10          | 2.1 @ 20             | 2.9 @ 10         | 562           | RHDP            | .99     | .89    | .79    |
| 334862   | Ledtech      | UC5621-11 <sup>R</sup>       | 0.56"            | Green             | CC            | 10          | 2.1 @ 20             | 2.9 @ 10         | 567           | RHDP            | .99     | .89    | .79    |
| 2075735  | Ligitek      | LSD5122-20/A <sup>R</sup>    | 0.56"            | Green             | CA            | 10          | 2.1 @ 20             | 4.5 @ 10         | 565           | RHDP            | .99     | .89    | .79    |
| 2075751  | Ligitek      | LSD5112-20/A <sup>R</sup>    | 0.56"            | Green             | CC            | 10          | 2.1 @ 20             | 4.5 @ 10         | 565           | RHDP            | .99     | .89    | .79    |
| 2075760  | Ligitek      | LSD5125BKS-20 <sup>R</sup>   | 0.56"            | Blue              | CA            | 10          | 3.5 @ 20             | 12.8 @ 10        | 460           | RHDP            | 2.49    | 2.25   | 1.95   |
| 1955829  | Lite-On      | LTS-3403AP                   | 0.80"            | Red Gap           | CC            | 18          | 2.1 @ 20             | 0.95 @ 10        | 697           | LHDP/RHDP       | 1.09    | .99    | .89    |
| 18753    | Ligitek      | LSD8151-10 <sup>R</sup>      | 0.80"            | Red               | CC            | 13          | 2.1 @ 20             | 1.0 @ 20         | 697           | RHDP            | 1.25    | 1.15   | .99    |
| 1955811  | Lite-On      | LTS-3401LC                   | 0.80"            | Red Gap           | CA            | 18          | 1.8 @ 20             | 8.0 @ 10         | 660           | LHDP/RHDP       | 1.09    | .99    | .89    |
| 18737    | Ligitek      | LSD8164-20 <sup>R</sup>      | 0.80"            | Orange Red        | CA            | 13          | 1.6 @ 20             | 0.9 @ 20         | 655           | RHDP            | 1.25    | 1.15   | .99    |
| 2005462  | Lite-On      | LTS-3401LE                   | 0.80"            | Yellow            | CA            | 18          | 2.1 @ 20             | 2.4 @ 10         | 630           | LHDP/RHDP       | 1.25    | 1.15   | .99    |
| 1955837  | Lite-On      | LTS-3403LY                   | 0.80"            | Yellow            | CC            | 18          | 2.1 @ 20             | 2.4 @ 10         | 585           | LHDP/RHDP       | 1.25    | 1.15   | .99    |
| 2005489  | Lite-On      | LTS-3401LG                   | 0.80"            | Green             | CA            | 18          | 2.1 @ 20             | 2.4 @ 10         | 565           | LHDP/RHDP       | 1.25    | 1.15   | .99    |
| 176559   | Re Fac       | C8021-1                      | 0.80"            | Green             | CC            | 13          | 2.0 @ 20             | 0.9 @ 20         | 568           | RHDP            | 1.25    | 1.15   | .99    |
| 97172    | Ligitek      | LSD10061-10 <sup>R</sup>     | 1.0"             | Red               | CA            | 10          | 2.1 @ 20             | 2.0 @ 20         | 697           | RHDP            | 1.75    | 1.49   | 1.25   |
| 308161   | Ledtech      | LA2541-24EWRN                | 1.0"             | Orange            | CA            | 10          | 4.2 @ 20             | 5.2 @ 10         | 635           | RHDP            | 1.75    | 1.49   | 1.25   |
| 97199    | Ligitek      | LSD23265-10 <sup>R</sup>     | 2.24"            | Red               | CA            | 10          | 1.7 @ 20             | 21 @ 20          | 660           | RHDP            | 4.49    | 3.95   | 3.59   |
| 97201    | Ligitek      | LSD23255-10 <sup>R</sup>     | 2.24"            | Red               | CC            | 10          | 1.7 @ 20             | 21 @ 20          | 660           | RHDP            | 4.49    | 3.95   | 3.59   |
| 105591   | Ligitek      | LSD40054-20 <sup>R</sup> †   | 4.00"            | Orange Red        | CC            | 10          | 2.0 @ 20             | 18 @ 20          | 635           | RHDP            | 8.95    | 7.95   | 7.15   |

### Single Digit 14-Segment Alphanumeric LED Displays

| Part No. | Manufacturer | Product No.                  | Character Height | Illuminated Color | Bus Polarity* | Pins/ Leads | Typical Vf @ If (mA) | Typical mcd @ mA | Wavelength nm | Decimal Point # | Pricing |        |        |
|----------|--------------|------------------------------|------------------|-------------------|---------------|-------------|----------------------|------------------|---------------|-----------------|---------|--------|--------|
|          |              |                              |                  |                   |               |             |                      |                  |               |                 | 1       | 10     | 100    |
| 2076703  | Ligitek      | LSD3E62-20/A <sup>R</sup>    | 0.39"            | Green             | CA            | 16          | 2.1 @ 20             | 3.05 @ 10        | 565           | RHDP            | \$1.69  | \$1.39 | \$1.19 |
| 2076691  | Ligitek      | LSD3E6SBKS-20/A <sup>R</sup> | 0.39"            | Blue              | CA            | 16          | 3.5 @ 20             | 7.2 @ 10         | 475           | RHDP            | 3.95    | 3.59   | 3.19   |

### 2-Digit 7-Segment Numeric LED Displays

| Part No. | Manufacturer | Product No.                  | Character Height | Illuminated Color | Bus Polarity* | Pins/ Leads | Typical Vf @ If (mA) | Typical mcd @ mA | Wavelength nm | Decimal Point # | Pricing |        |        |
|----------|--------------|------------------------------|------------------|-------------------|---------------|-------------|----------------------|------------------|---------------|-----------------|---------|--------|--------|
|          |              |                              |                  |                   |               |             |                      |                  |               |                 | 1       | 10     | 100    |
| 1955781  | Lite-On      | LTD-2701WC                   | 0.28"            | Red               | CC            | 10          | 1.8 @ 20             | 3.1 @ 5          | 660           | RHDP            | \$1.25  | \$1.09 | \$ .99 |
| 1955845  | Lite-On      | LTD-383E-R2                  | 0.30"            | Red Orange        | CA            | 16          | 2.0 @ 20             | 1.6 @ 10         | 630           | RHDP            | 1.25    | 1.09   | .99    |
| 1955853  | Lite-On      | LTD-482P-YQ                  | 0.40"            | Bright Red        | CA            | 16          | 2.1 @ 20             | 0.8 @ 10         | 697           | RHDP            | 1.25    | 1.09   | .99    |
| 2075786  | Ligitek      | LDD4062-20/A <sup>R</sup>    | 0.40"            | Green             | CA            | 16          | 2.1 @ 20             | 3.05 @ 10        | 565           | RHDP            | 1.49    | 1.35   | 1.15   |
| 1955861  | Lite-On      | LTD-432GC                    | 0.40"            | Green             | CC            | 16          | 2.1 @ 20             | 1.1 @ 10         | 565           | No DP           | 1.49    | 1.35   | 1.15   |
| 2005340  | Lite-On      | LTD-4608B                    | 0.40"            | Blue              | CA            | 10          | 3.8 @ 20             | 3.6 @ 10         | 428           | RHDP            | 3.95    | 3.59   | 3.39   |
| 200379   | Rohm         | LB602VAGI                    | 0.56"            | Red               | CA            | 18          | 2.0 @ 10             | 1.6 @ 10         | 650           | RHDP            | 1.25    | 1.09   | .99    |
| 24715    | Ligitek      | LDD5121-20 <sup>R</sup>      | 0.56"            | Red               | CA            | 18          | 2.1 @ 20             | 0.8 @ 20         | 697           | RHDP            | 1.59    | 1.39   | 1.19   |
| 24723    | Ligitek      | LDD5111-11 <sup>R</sup>      | 0.56"            | Red               | CC            | 18          | 2.1 @ 20             | 0.8 @ 20         | 697           | RHDP            | 1.59    | 1.39   | 1.19   |
| 24694    | Ligitek      | LDD5124 <sup>R</sup>         | 0.56"            | Orange Red        | CA            | 18          | 2.0 @ 20             | 2.4 @ 20         | 635           | RHDP            | 1.59    | 1.39   | 1.19   |
| 24707    | Ligitek      | LDD5114-20 <sup>R</sup>      | 0.56"            | Orange Red        | CC            | 18          | 2.0 @ 20             | 2.4 @ 20         | 635           | RHDP            | 1.59    | 1.39   | 1.19   |
| 790031   | Lite-On      | LTD-6940HR <sup>R</sup>      | 0.56"            | Hi-eff Red        | CC            | 18          | 2.0 @ 20             | 2.4 @ 10         | 623           | RHDP            | 1.69    | 1.49   | 1.25   |
| 334976   | ValuePro     | UA5642R-11 <sup>R</sup> ☼    | 0.56"            | Hi-eff Red        | CA            | 18          | 2.1 @ 20             | 3.3 @ 10         | 635           | RHDP            | 1.59    | 1.29   | 1.19   |
| 200539   | Arctic       | ELD56YWA                     | 0.56"            | Yellow            | CA            | 18          | 2.0 @ 20             | 1.9 @ 10         | 590           | RHDP            | 1.25    | 1.09   | .99    |
| 790022   | Lite-On      | LTD-6410AG <sup>R</sup>      | 0.56"            | Green             | CA            | 18          | 2.1 @ 20             | 2.4 @ 10         | 565           | RHDP            | 1.59    | 1.39   | 1.19   |
| 2005358  | Lite-On      | LTD-5623BG                   | 0.56"            | Green             | CC            | 18          | 2.1 @ 20             | 2.4 @ 10         | 565           | RHDP            | 1.59    | 1.39   | 1.19   |
| 2005366  | Lite-On      | LTD-6440G                    | 0.56"            | Green             | CC            | 18          | 2.1 @ 20             | 2.4 @ 10         | 570           | RHDP            | 1.59    | 1.39   | 1.19   |
| 2075794  | Ligitek      | LDD512SBKS-20/A <sup>R</sup> | 0.56"            | Blue              | CA            | 18          | 3.5 @ 20             | 58 @ 10          | 475           | RHDP            | 4.95    | 4.49   | 3.95   |

\* CA-Common Anode/CC-Common Cathode # LHDP-Left Hand Decimal Point / RHDP-Right Hand Decimal Point † 5 diodes per segment ☼ Blue Part No. = Limited Quantity Available

### 3-Digit 7-Segment Numeric LED Displays

|         |          |                             |       |        |    |    |          |          |     |      |        |        |        |
|---------|----------|-----------------------------|-------|--------|----|----|----------|----------|-----|------|--------|--------|--------|
| 335055  | ValuePro | UN4043-13 EWRN <sup>R</sup> | 0.40" | Orange | CA | 12 | 2.1 @ 20 | 3.3 @ 10 | 635 | RHDP | \$2.49 | \$2.25 | \$1.95 |
| 1956493 | Lite-On  | LTC561R                     | 0.56" | Red    | CA | 12 | 1.7 @ 20 | 0.6 @ 10 | 665 | RHDP | 2.49   | 2.25   | 1.95   |
| 308224  | Ledtech  | LM5643R-11RRRN              | 0.56" | Orange | CC | 11 | 2.1 @ 20 | 3.3 @ 10 | 635 | RHDP | 2.49   | 2.25   | 1.95   |
| 225963  | ValuePro | KW3-562A2B                  | 0.56" | Green  | CA | 28 | 2.2 @ 20 | 15 @ 20  | 568 | RHDP | 2.49   | 2.25   | 1.95   |

<sup>R</sup> RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 197.

# 7 & 14-Segment LED Displays, Bar Graph Arrays & Light Bars

## 7 & 14-Segment LED Displays (Continued)

See Page 33 for photos

★ Web Code: PBW

### 2-Digit 14-Segment Alphanumeric LED Displays

| Part No. | Manufacturer | Product No.     | Character Height | Illuminated Color | Bus Polarity * | Pins/ Leads | Typical Vf @ If (mA) | Typical mcd @ mA | Wavelength nm | Decimal Point # | Pricing |        |        |
|----------|--------------|-----------------|------------------|-------------------|----------------|-------------|----------------------|------------------|---------------|-----------------|---------|--------|--------|
|          |              |                 |                  |                   |                |             |                      |                  |               |                 | 1       | 10     | 100    |
| 2005382  | Lite-On      | LTP-4323P       | 0.40"            | Bright Red        | CC             | 20          | 2.1 @ 20             | 0.75 @ 10        | 697           | RHDP            | \$1.95  | \$1.75 | \$1.49 |
| 2005391  | Lite-On      | LTP-4323JD      | 0.40"            | AlInGaP Hyper Red | CC             | 20          | 2.1 @ 20             | 0.65 @ 10        | 650           | RHDP            | 2.49    | 2.25   | 1.95   |
| 1955870  | Lite-On      | LTP-4323G       | 0.40"            | Green             | CC             | 20          | 2.1 @ 20             | 2.0 @ 10         | 569           | RHDP            | 2.49    | 2.25   | 1.95   |
| 1955896  | Lite-On      | LTP-3786S-03    | 0.54"            | AlGaAs Red        | CA             | 18          | 1.8 @ 20             | 4.0 @ 10         | 660           | RHDP            | 2.49    | 2.25   | 1.95   |
| 1955909  | Lite-On      | LTP-3785E-01    | 0.54"            | Red Orange        | CA             | 18          | 2.0 @ 20             | 2.0 @ 10         | 630           | RHDP            | 2.95    | 2.49   | 2.19   |
| 1955933  | Lite-On      | LTP-8647AP      | 0.54"            | Bright Red        | ↑↑             | 18          | 12 @ 8.5             | 0.9 @ 0.4        | 697           | RHDP            | 2.95    | 2.49   | 2.19   |
| 1955917  | Lite-On      | LTP-3785G-01    | 0.54"            | Green             | CA             | 18          | 2.1 @ 20             | 2.0 @ 10         | 565           | RHDP            | 1.95    | 1.75   | 1.49   |
| 335222   | ValuePro     | UA5422-11 EWRS  | 0.54"            | Green             | CA             | 18          | 2.1 @ 20             | 2.9 @ 10         | 567           | RHDP            | 2.49    | 2.25   | 1.95   |
| 2075807  | Ligitek      | LDD525SBKS-20/A | 0.56"            | Blue              | CC             | 18          | 3.5 @ 20             | 10.5 @ 10        | 460           | RHDP            | 8.95    | 7.95   | 6.95   |

Optos

### 4-Digit 7-Segment Numeric LED Displays

| Part No. | Manufacturer | Product No.     | Character Height | Illuminated Color | Bus Polarity * | Pins/ Leads | Typical Vf @ If (mA) | Typical mcd @ mA | Wavelength nm | Decimal Point # | 1      | 10     | 100    |
|----------|--------------|-----------------|------------------|-------------------|----------------|-------------|----------------------|------------------|---------------|-----------------|--------|--------|--------|
| 2006810  | Ligitek      | LFD2121-20/A-PF | 0.28"            | Red               | CA             | 12          | 2.1 @ 20             | 0.8 @ 10         | 697           | RHDP            | \$2.95 | \$2.49 | \$2.19 |
| 1956549  | Lite-On      | LTC-2623G       | 0.28"            | Green             | CA             | 16          | 2.1 @ 20             | 2.0 @ 10         | 575           | RHDP            | 2.95   | 2.49   | 2.19   |
| 2006828  | Ligitek      | LFD4161-20/A-PF | 0.40"            | Red               | CA             | 16          | 2.1 @ 20             | 0.8 @ 10         | 697           | RHDP            | 2.95   | 2.49   | 2.19   |
| 1956506  | Lite-On      | LTC-5837E       | 0.52"            | Red Orange        | CA             | 40          | 2.0 @ 20             | 2.2 @ 10         | 630           | RHDP            | 2.95   | 2.49   | 2.19   |
| 2006836  | Ligitek      | LFD5221-20/A-PF | 0.56"            | Red               | CA             | 12          | 2.1 @ 20             | 1.0 @ 10         | 697           | RHDP            | 2.95   | 2.49   | 2.19   |
| 2005711  | Lite-On      | LTC-5653G-01    | 0.56"            | Green             | CA             | 12          | 2.1 @ 20             | 2.4 @ 10         | 565           | RHDP            | 2.49   | 2.25   | 1.95   |
| 1956573  | Lite-On      | LTC-5848G       | 0.56"            | Green             | CA             | 36          | 2.1 @ 20             | 2.4 @ 10         | 565           | RHDP##          | 2.95   | 2.49   | 2.19   |
| 335194   | ValuePro     | UM5624-11-EWRS  | 0.56"            | Green             | CC             | 12          | 2.1 @ 20             | 2.9 @ 10         | 567           | RHDP            | 2.95   | 2.49   | 2.19   |
| 11360    | Lite-On      | LTC-5851Y       | 0.56"            | Yellow            | CA             | 36          | 2.1 @ 20             | 2.1 @ 10         | 585           | RHDP##          | 2.95   | 2.49   | 2.19   |

\* CA-Common Anode/CC-Common Cathode ↑↑ Built in M5450 MOS IC driver # LHDP-Left Hand Decimal Point / RHDP-Right Hand Decimal Point ## 1st & 2nd digits only

## LED Bar Graph Arrays (10 Elements)

★ Web Code: LBW

| Part No. | Manufacturer | Product No.     | Character Height | Illuminated Color          | Number of Elements | Pins/ Leads | Typical Vf @ If (mA)   | Typical mcd @ mA | Wavelength nm | Pricing |        |        |
|----------|--------------|-----------------|------------------|----------------------------|--------------------|-------------|------------------------|------------------|---------------|---------|--------|--------|
|          |              |                 |                  |                            |                    |             |                        |                  |               | 1       | 10     | 100    |
| 697477   | Lite-On      | LTA-1000HR      | 0.20"            | Hi-eff. Red                | 10                 | 20          | 2.0 @ 20               | 2.0 @ 10         | 635           | \$1.05  | \$0.85 | \$0.69 |
| 334529   | ValuePro     | UL10000-HR-RRAK | 0.20"            | Red                        | 10                 | 20          | 2.1 @ 20               | 1.6 @ 10         | 635           | 1.29    | 1.09   | .89    |
| 334537   | ValuePro     | UL10000-Y-EWAK  | 0.20"            | Yellow                     | 10                 | 20          | 2.1 @ 20               | 1.1 @ 10         | 585           | 1.19    | .99    | .79    |
| 2115531  | Ledtronics   | LBG1000G3B      | 0.20"            | Hi-eff Green               | 10                 | 20          | 2.1 @ 10               | 5 @ 10           | 565           | 1.29    | 1.19   | .89    |
| 697469   | Lite-On      | LTA-1000G       | 0.20"            | Green                      | 10                 | 20          | 2.1 @ 20               | 2.0 @ 10         | 565           | 1.19    | .99    | .79    |
| 334511   | ValuePro     | UL10000-E-EWAK  | 0.20"            | Green                      | 10                 | 20          | 2.1 @ 20               | 1.4 @ 10         | 567           | 1.19    | .99    | .79    |
| 1551402  | Avago        | HDSP-4832       | 0.20"            | Hi-eff. Red, Yellow, Green | 10                 | 20          | 2.1/2.2 @ 20; 2.1 @ 10 | 3.5/1.9/1.9 @ 10 | 635/583/566   | 6.95    | 6.25   | 5.59   |



Fig. 1



Fig. 2



Fig. 3

## Light Bars



Fig. 4



Fig. 5

★ Web Code: LTB

| Part No. | Manufacturer | Product No.     | Illuminated Color | Light Emitting Area | Package Fig. | Pins/ Leads | Typical Forward Volt | Typical Luminosity | Wavelength nm | Pricing |        |        |
|----------|--------------|-----------------|-------------------|---------------------|--------------|-------------|----------------------|--------------------|---------------|---------|--------|--------|
|          |              |                 |                   |                     |              |             |                      |                    |               | 1       | 10     | 100    |
| 1954965  | Lite-On      | LTL-2600HR      | Hi-eff Red        | .350" x .150" (2)   | 1            | 8           | 2.1 @ 20             | 4200               | 635           | \$0.89  | \$0.75 | \$0.59 |
| 1954973  | Lite-On      | LTL-2800G       | Green             | .350" x .150" (2)   | 1            | 8           | 2.1 @ 20             | 4200               | 565           | .89     | .75    | .59    |
| 790188   | Lite-On      | LTL-2620HR      | Hi-eff Red        | .350" x .150" (4)   | 2            | 16          | 2.1 @ 20             | 4200               | 635           | .89     | .75    | .59    |
| 1955001  | Lite-On      | LTL-2720Y       | Yellow            | .350" x .150" (4)   | 2            | 16          | 2.1 @ 20             | 4200               | 585           | .99     | .85    | .69    |
| 334650   | ValuePro     | UB3541R-11-NRAK | Orange            | .350" x .350" (1)   | 3            | 16          | 2.1 @ 20             | 7800               | 635           | .99     | .85    | .69    |
| 334668   | ValuePro     | UB3531R-11-NYAK | Yellow            | .350" x .350" (1)   | 3            | 16          | 2.1 @ 20             | 5500               | 585           | 1.09    | .89    | .75    |
| 334676   | ValuePro     | UB3521R-11-NGAK | Green             | .350" x .350" (1)   | 3            | 16          | 2.1 @ 20             | 6800               | 567           | 1.25    | .99    | .89    |
| 2005315  | Lite-On      | LTL-2350HR      | Hi-eff Red        | .750" x .150" (1)   | 4            | 8           | 2.1 @ 20             | 800                | 635           | 1.09    | .89    | .79    |
| 790153   | Lite-On      | LTL-2450Y       | Yellow            | .750" x .150" (1)   | 4            | 8           | 2.1 @ 20             | 800                | 585           | .99     | .85    | .69    |
| 2005323  | Lite-On      | LTL-2685HR      | Hi-eff Red        | .350" x .750" (1)   | 5            | 16          | 2.1 @ 20             | 1600               | 635           | 1.49    | 1.25   | 1.09   |
| 2005331  | Lite-On      | LTL-2885G       | Green             | .350" x .750" (1)   | 5            | 16          | 2.1 @ 20             | 1600               | 565           | 1.49    | 1.25   | 1.09   |

## LED Dot Matrix with Decoder Driver (4x7 & 5x7 Arrays) Alphanumeric & Hexadecimal

• Supply voltage: 5V

★ Web Code: HAV



5x7 Alpha Character



4x7 Hex Character

| Part No. | Manufacturer      | Product No. | Character Height | Illuminated Color | No. of Characters | Array Polarity | Pins/ Leads | Typical mcd | Wavelength nm | Pricing |         |         |
|----------|-------------------|-------------|------------------|-------------------|-------------------|----------------|-------------|-------------|---------------|---------|---------|---------|
|          |                   |             |                  |                   |                   |                |             |             |               | 1       | 10      | 100     |
| 1551269  | Avago             | HDSP-2532   | 0.18"            | Hi-efficiency Red | 8 (1x8)           | 5 x 7 Alpha    | 30          | 7.5         | 635           | \$32.95 | \$31.95 | \$29.95 |
| 1551251  | Avago             | HDSP-2531   | 0.18"            | Yellow            | 8 (1x8)           | 5 x 7 Alpha    | 30          | 7.5         | 583           | 32.95   | 31.95   | 29.95   |
| 1584301  | Avago             | HDSP-2111   | 0.20"            | Yellow            | 8 (1x8)           | 5 x 7 Alpha    | 28          | 7.5         | 583           | 32.95   | 31.95   | 29.95   |
| 1551120  | Avago             | HDLG-2416   | 0.20"            | Green             | 4 (1x4)           | 5 x 7 Alpha    | 18          | 5.6         | 568           | 19.95   | 18.95   | 17.95   |
| 32951    | Texas Instruments | TIL311      | 0.27"            | Red               | 1                 | 4 x 7 Hex      | 14          | 0.1         | 660           | 19.95   | 17.95   | 15.95   |
| 1551189  | Avago             | HDSP-0762   | 0.29"            | Hi-efficiency Red | 1                 | 4 x 7 Hex      | 8           | 0.14        | 635           | 27.95   | 26.95   | 25.95   |

• Blue Part No. = Limited Quantity Available

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## LED Dot Matrix Displays (5x7, 5x8 & 8x8 Arrays)



★ Web Code: HAV

| Part No. | Manufacturer | Product No.    | Character Height | Illuminated Color  | Array Polarity* | Pins/Leads | Typical Vf @ If (mA) | Typical mcd @ mA | Wavelength nm | Pricing |        |        |
|----------|--------------|----------------|------------------|--------------------|-----------------|------------|----------------------|------------------|---------------|---------|--------|--------|
|          |              |                |                  |                    |                 |            |                      |                  |               | 1       | 10     | 100    |
| 218843   | Various      | CSM57041T-11   | 0.7"             | Red                | 5 x 7 CC/AR     | 12         | 1.8 @ 20             | 8.0 @ 20         | 660           | \$1.95  | \$1.49 | \$1.25 |
| 118906   | Lite-On      | LTP-747R       | 0.7"             | Hi-efficiency Red  | 5 x 7 AC/CR     | 12         | 2.0 @ 20             | 2.0 @ 80         | 655           | 2.25    | 1.75   | 1.49   |
| 2005420  | Lite-On      | LTP-747C       | 0.7"             | AlGaAs Red         | 5 x 7 AC/CR     | 12         | 1.8 @ 20             | 5.8 @ 80         | 660           | 2.49    | 1.95   | 1.75   |
| 2005471  | Lite-On      | LTP-757KR      | 0.7"             | AlInGaP Super Red  | 5 x 7 CC/AR     | 12         | 2.0 @ 20             | 3.4 @ 32         | 639           | 2.95    | 2.25   | 1.89   |
| 2005454  | Lite-On      | LTP-747E       | 0.7"             | Orange             | 5 x 7 AC/CR     | 12         | 2.0 @ 20             | 2.0 @ 80         | 630           | 1.95    | 1.49   | 1.25   |
| 2005497  | Lite-On      | LTP-757G       | 0.7"             | Green              | 5 x 7 CC/AR     | 12         | 2.1 @ 20             | 2.0 @ 80         | 565           | 1.95    | 1.49   | 1.25   |
| 1955061  | Lite-On      | LTP-1457AHR    | 1.2"             | Hi-efficiency Red  | 5 x 7 AC/CR     | 14         | 2.0 @ 20             | 4.0 @ 80         | 635           | 2.95    | 2.49   | 2.25   |
| 1955079  | Lite-On      | LTP-1557AHR    | 1.2"             | Hi-efficiency Red  | 5 x 7 CC/AR     | 14         | 2.1 @ 20             | 4.0 @ 80         | 565/630       | 3.49    | 2.95   | 2.49   |
| 335281   | ValuePro     | UJ1141-21-EWRN | 1.2"             | Orange             | 5 x 7 CC/AR     | 14         | 2.1 @ 20             | 4.6 @ 10         | 635           | 3.49    | 2.95   | 2.25   |
| 2005518  | Lite-On      | LTP-1557AKA    | 1.2"             | AlInGaP Red Orange | 5 x 7 CC/AR     | 14         | 2.05 @ 20            | 3.8 @ 80         | 621           | 2.95    | 2.49   | 1.95   |
| 1955087  | Lite-On      | LTP-1257AA-01  | 1.2"             | Green/Red Orange   | 5 x 7 AC/CR     | 20         | 2.1/2.0 @ 20         | 4.0 @ 80         | 565/630       | 2.95    | 2.49   | 1.95   |
| 1955095  | Lite-On      | LTP-1057AE     | 1.24"            | Red Orange         | 5 x 7 AC/CR     | 14         | 2.0 @ 20             | 4.0 @ 80         | 630           | 2.95    | 2.49   | 1.95   |
| 2005745  | Lite-On      | LTP-1057AGNB   | 1.24"            | Green              | 5 x 7 AC/CR     | 14         | 2.1 @ 20             | 4.0 @ 80         | 565           | 2.95    | 2.49   | 1.95   |
| 1955108  | Lite-On      | LTP-1057AHR    | 1.54"            | Hi-efficiency Red  | 5 x 7 AC/CR     | 14         | 2.0 @ 20             | 4.0 @ 80         | 635           | 3.95    | 3.25   | 2.59   |
| 308144   | Ledtech      | LT5763-M1EWRN  | 1.54"            | Red/Green          | 5 x 7 AC/CR     | 20         | 1.7/2.1 @ 20         | 10.8/20 @ 10     | 660/567       | 3.95    | 3.25   | 2.25   |
| 1955132  | Lite-On      | LTP-2157AHR-RD | 2.0"             | Hi-efficiency Red  | 5 x 7 CC/AR     | 14         | 2.0 @ 20             | 4.8 @ 80         | 635           | 3.95    | 3.35   | 2.89   |
| 2005753  | Lite-On      | LTP-2057AE     | 2.0"             | Orange             | 5 x 7 AC/CR     | 14         | 2.0 @ 20             | 4.8 @ 80         | 630           | 3.95    | 3.35   | 2.89   |
| 1955116  | Lite-On      | LTP-2157AE     | 2.0"             | Orange             | 5 x 7 CC/AR     | 14         | 2.0 @ 20             | 4.8 @ 80         | 630           | 2.95    | 2.49   | 1.95   |
| 335290   | ValuePro     | UJ2041-21 EWRN | 2.0"             | Orange             | 5 x 7 CC/AR     | 14         | 2.1 @ 20             | 6.0 @ 10         | 630           | 3.95    | 3.35   | 2.89   |
| 206560   | Lite-On      | LTP-2157AG     | 2.0"             | Green              | 5 x 7 CC/AR     | 14         | 2.1 @ 20             | 4.8 @ 80         | 565           | 2.95    | 2.49   | 1.95   |
| 2077351  | Lite-On      | LTP-2657AA     | 2.0"             | Green/Red Orange   | 5 x 7 AC/CR     | 28         | 2.1/2.0 @ 20         | 4.8 @ 80         | 565/630       | 3.95    | 3.35   | 2.89   |
| 1955159  | Lite-On      | LTP-2757AA     | 2.0"             | Green/Red Orange   | 5 x 7 CC/AR     | 28         | 2.1/2.0 @ 20         | 4.8 @ 80         | 565/630       | 2.95    | 2.49   | 1.95   |
| 2005761  | Lite-On      | LTP-3057AC     | 3.0"             | AlGaAs Red         | 5 x 7 AC/CR     | 14         | 3.6 @ 20             | 20 @ 80          | 660           | 3.95    | 3.49   | 2.95   |
| 1955167  | Lite-On      | LTP-4157AE     | 4.0"             | Orange             | 5 x 7 CC/AR     | 14         | 4.0 @ 20             | 96 @ 80          | 630           | 4.95    | 4.19   | 3.59   |
| 1955175  | Lite-On      | LTP-4157AG     | 4.0"             | Green              | 5 x 7 CC/AR     | 14         | 4.2 @ 20             | 96 @ 80          | 565           | 3.95    | 3.49   | 2.95   |
| 1955183  | Lite-On      | LTP-2158AHR    | 2.3"             | Hi-efficiency Red  | 5 x 8 CC/AR     | 14         | 2.1 @ 20             | 4.0 @ 48         | 635           | 2.95    | 2.49   | 1.95   |
| 1955191  | Lite-On      | LTP-2158AY     | 2.3"             | Yellow             | 5 x 8 CC/AR     | 14         | 2.1 @ 20             | 4.8 @ 80         | 585           | 3.95    | 3.59   | 2.75   |
| 1955204  | Lite-On      | LTP-2458AA-NB  | 2.3"             | Green/Red Orange   | 5 x 8 AC/CR     | 28         | 2.1/2.0 @ 20         | 4.8 @ 80         | 565/630       | 3.95    | 3.59   | 2.75   |
| 1955212  | Lite-On      | LTP-2558AA     | 2.3"             | Green/Red Orange   | 5 x 8 CC/AR     | 28         | 2.1/2.0 @ 20         | 4.8 @ 80         | 565/630       | 3.95    | 3.59   | 2.75   |
| 1955221  | Marktech     | MTAN6385-AHRG  | 0.85"            | Hi-efficiency Red  | 8 x 8 AC/CR     | 24         | 2.1 @ 20             | 7.4 @ 20         | 635           | 3.95    | 3.59   | 2.75   |

\* AC-Anode Column / AR-Anode Row / CC-Cathode Column / CR-Cathode Row

## Multi-Chip, Bayonet and Cluster Based LED Replacement Lamps

JAMECO EXCLUSIVE

★ Web Code: KBZ

### 585 Series Non-Polarized

- Low current draw – 90% less energy than incandescent
- No heat generated • Long life – up to 100k hours
- Mounts directly into industry standard socket

### Multi-Chip Based LED T1 - Midget Flange

| Part No. | Product No. | Color  | Nominal Voltage | Forward Current (mA) typ. | Intensity (mcd) typ. | Wavelength (nm) | Pricing |        |        |
|----------|-------------|--------|-----------------|---------------------------|----------------------|-----------------|---------|--------|--------|
|          |             |        |                 |                           |                      |                 | 1       | 10     | 100    |
| 392681   | 585-4123    | Green  | 14              | 14                        | 550                  | 630             | \$2.49  | \$2.19 | \$1.79 |
| 392690   | 585-4125    | Yellow | 14              | 20                        | 530                  | 630             | 2.49    | 2.19   | 1.79   |
| 392702   | 585-1225    | Red    | 28              | 4.5                       | 350                  | 625             | 2.49    | 2.19   | 1.79   |

### Bayonet Based LED T3

|        |          |     |    |    |     |     |        |        |        |
|--------|----------|-----|----|----|-----|-----|--------|--------|--------|
| 394476 | 585-4123 | Red | 14 | 20 | 550 | 630 | \$2.95 | \$2.59 | \$1.95 |
| 394493 | 585-4125 | Red | 28 | 14 | 350 | 630 | 2.95   | 2.59   | 1.95   |

### Cluster-Based LED T3 - Miniature Bayonet (BA9s)

- Replaces incandescent lamp numbers: 44, 47, 313, 755, 1815, 1819, 1847, 1850, 1866, 1889, 1891, 1892, 1893, and 1895

| Part No. | Product No. | Color  | Nominal Voltage | Forward Current (mA) typ. | Intensity (mcd) typ. | Wavelength (nm) | 1      | 10     | 100    |
|----------|-------------|--------|-----------------|---------------------------|----------------------|-----------------|--------|--------|--------|
| 392552   | 585-5223    | Red    | 14              | 20                        | 7000                 | 630             | \$4.95 | \$4.49 | \$3.95 |
| 392585   | 585-5523    | Yellow | 14              | 20                        | 7000                 | 588             | 4.95   | 4.49   | 3.95   |
| 392593   | 585-5225    | Red    | 28              | 15                        | 6500                 | 630             | 4.95   | 4.49   | 3.95   |
| 392607   | 585-5325    | Green  | 28              | 15                        | 6000                 | 525             | 4.95   | 4.49   | 3.95   |
| 392622   | 585-5525    | Yellow | 28              | 15                        | 6000                 | 588             | 4.95   | 4.49   | 3.95   |
| 392632   | 585-5256    | Red    | 120VAC          | 5.5                       | 6500                 | 625             | 4.95   | 4.49   | 3.95   |
| 392649   | 585-5356    | Green  | 120VAC          | 5.5                       | 7000                 | 525             | 4.95   | 4.49   | 3.95   |

## Electroluminescence Wire

Imagine the possibilities of transforming ordinary objects with high tech visual effects. Wrap this fluorescent wire around any object such as musical instruments, models, science projects, and presentation boards.

★ Web Code: ELW



Super charge your projects with brilliant color.

- Powered by 2 AA batteries • Length: 4.5'

| Part No. | Mfr. Part No. | Color     | 1       | 5       | 25      |
|----------|---------------|-----------|---------|---------|---------|
| 263484   | NWRB15        | Blue ...  | \$22.95 | \$19.95 | \$17.95 |
| 263492   | NWRR15        | Red ..... | 22.95   | 19.95   | 17.95   |

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RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 197.





## Color TFT (Thin Film Transistor) Modules

**NEW**  
MARKED IN PINK

★ Web Code: GCG

- White LED backlight
- Transmissive TFT
- Wide viewing angle
- High brightness LED backlights

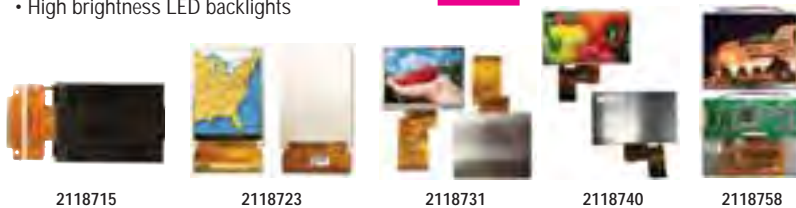
**2118715:** Recommend NHD-FFC37 adapter P/N 2122731 (see web)

**2118723:** Recommend NHD-COG14-36 adapter P/N 2122749 (see web)

**2118731:** Recommend NHD-FFC20-1 adapter P/N 2122757 (see web),  
NHD-3.5-320240MF-20, P/N 2122765 controller board (see web),  
digital RGB interface (6.5MHz)

**2118740:** 16-bit digital input data, touch panel type, recommend  
NHD-4.3-480272MF-20 controller board P/N 2122773 (see web)

**2118758:** Recommends NHD-FFC20-1 adapter P/N 2122757 (see web)



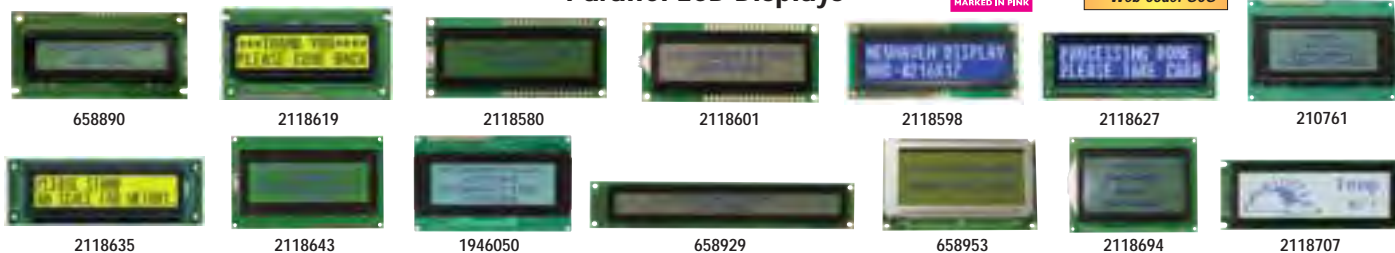
| Part No.       | Mfr.      | Mfr. Part No.              | Pixels<br>(Portrait Mode) | Diagonal<br>View | Input Data<br>(Parallel) | Input Voltage<br>(V @ mA) | Built-In<br>Controller | Module Size<br>(W" x H" x D") | Display Size<br>(W" x H") | Pricing |         |         |
|----------------|-----------|----------------------------|---------------------------|------------------|--------------------------|---------------------------|------------------------|-------------------------------|---------------------------|---------|---------|---------|
|                |           |                            |                           |                  |                          |                           |                        |                               |                           | 1       | 5       | 25      |
| <b>2118715</b> | Newhaven  | NHD-1.8-128160ZF-CTXL#     | 128 x 160                 | 1.8"             | 8-bit                    | 2.8 @ 25.5                | IL9163                 | 1.4 x 1.9 x 0.10              | 1.10 x 1.40               | \$17.95 | \$16.95 | \$15.95 |
| <b>2118723</b> | Newhaven  | NHD-2.4-240320SF-CTX#      | 240 x 320                 | 2.4"             | 8-bit or 16-bit          | 2.8 @ 7                   | IL9328                 | 1.7 x 2.4 x 0.10              | 1.50 x 1.90               | 29.95   | 27.95   | 25.95   |
| <b>2118731</b> | Newhaven* | NHD-3.5-320240MF-ATXL#-1   | 320 x 240                 | 3.5"             | 24-bit                   | 3.3 @ 8.6                 | —                      | 3.0 x 2.5 x 0.11              | 2.80 x 2.10               | 33.95   | 31.95   | 29.95   |
| <b>2118740</b> | Newhaven  | NHD-4.3-480272MF-ATXI#-T-1 | 480 x 272                 | 4.3"             | 24-bit                   | 3.3 @ 32                  | —                      | 4.2 x 2.7 x 0.15              | 3.70 x 2.10               | 48.95   | 45.95   | 42.95   |
| <b>2118758</b> | Newhaven* | NHD-5.7-640480WF-CTXL#-T   | 640 x 480                 | 5.7"             | 24-bit                   | 3.3 @ 190                 | SSD1963                | 4.9 x 3.9 x 0.15              | 4.50 x 3.40               | 139.95  | 134.95  | 129.95  |

\* Landscape mode

## Parallel LCD Displays

**NEW**  
MARKED IN PINK

★ Web Code: GCG



| Part No.       | Mfr.        | Mfr. Part No.           | Characters<br>x Lines | Character<br>Font | Input Data     | Input Voltage | Letters-Backlight  | Notes† | Module Size<br>(W" x H" x D") | Display Size<br>(W" x H") | Pricing |        |        |
|----------------|-------------|-------------------------|-----------------------|-------------------|----------------|---------------|--------------------|--------|-------------------------------|---------------------------|---------|--------|--------|
|                |             |                         |                       |                   |                |               |                    |        |                               |                           | 1       | 5      | 25     |
| 137373         | Varitronix  | MDLS16166D              | 16 x 1                | 5 x 8             | 8-bit          | 5.0V @ 0.6mA  | Black-None         | 2, 3   | 3.1 x 1.4 x 0.4               | 2.5 x 0.5                 | \$8.95  | \$7.95 | \$6.95 |
| 1939571        | Hitachi     | LM071L                  | 16 x 2                | 5 x 7             | 8-bit          | 5.0V @ 1.0mA  | Black-None         | —      | 3.1 x 1.4 x 0.4               | 2.5 x 0.5                 | 8.95    | 7.95   | 6.95   |
| 618003         | Hantronix   | HDM716216H-5-3005       | 16 x 2                | 5 x 7             | 8-bit          | 5.0V @ 1.25mA | Black-None         | —      | 3.2 x 1.4 x 0.3               | 2.5 x 0.5                 | 9.95    | 8.95   | 7.95   |
| 658988         | Hantronix   | HDM716216L-7-8C0        | 16 x 2                | 5 x 7             | 8-bit          | 5.0V @ 2.0mA  | Black-Yellow       | 3      | 4.8 x 1.7 x 0.6               | 3.9 x 0.9                 | 11.95   | 10.95  | 8.95   |
| 658890         | Hantronix   | HDM716216H-B-P00P       | 16 x 2                | 5 x 7             | 8-bit          | 5.0V @ 2.2mA  | Black-None         | 3      | 3.3 x 1.7 x 0.4               | 2.4 x 0.6                 | 13.95   | 12.49  | 11.25  |
| 658881         | Hantronix   | HDM716216H-4-H0AF       | 16 x 2                | 5 x 7             | 8-bit          | 5.0V @ 2.2mA  | Black-None         | 3      | 4.8 x 1.7 x 0.4               | 3.9 x 0.9                 | 12.95   | 11.49  | 10.95  |
| 171716         | Ampire      | AC-162A                 | 16 x 2                | 5 x 8             | 8-bit          | 5.5V @ 1.5mA  | Black-Yellow/Green | 2, 3   | 3.4 x 1.2 x 0.5               | 2.5 x 0.7                 | 19.95   | 17.95  | 15.95  |
| 1946068        | Goldentek   | C-1602A-1YN             | 16 x 2                | 5 x 8             | 8-bit          | 5.0V @ 1.0mA  | Black-Yellow/Green | —      | 2.8 x 1.4 x 0.4               | 2.6 x 0.6                 | 9.95    | 8.95   | 7.95   |
| <b>2118619</b> | Newhaven    | NHD-021682-FL-YBW       | 16 x 2                | 5 x 8             | 4-bit or 8-bit | 5.0V @ 1.5mA  | Blue-Yellow/Green  | 5, 6   | 3.3 x 1.7 x 0.5               | 2.5 x 0.6                 | 9.95    | 8.95   | 7.95   |
| 1585979        | Tinsharp    | TC1602B-B               | 16 x 2                | 5 x 8             | 8-bit          | 5.0V @ 1.3mA  | Black-Blue         | —      | 3.1 x 1.4 x 0.4               | 2.5 x 0.4                 | 17.95   | 15.95  | 13.95  |
| <b>2118580</b> | Newhaven    | NHD-0216K1Z-FL-YBW      | 16 x 2                | 5 x 8             | 4-bit or 8-bit | 5.0V @ 1.5mA  | Blue-Yellow/Green  | 5, 6   | 3.2 x 1.4 x 0.5               | 2.5 x 0.6                 | 9.95    | 8.95   | 7.95   |
| <b>2118601</b> | Newhaven    | NHD-0216K1Z-FS(RGB)-FBW | 16 x 2                | 5 x 8             | 4-bit or 8-bit | 5.0V @ 1.5mA  | Black-RGB          | 5, 6   | 3.2 x 1.4 x 0.5               | 2.5 x 0.6                 | 13.95   | 12.95  | 11.95  |
| <b>2118598</b> | Newhaven    | NHD-0216K1Z-NSW-BBW-L   | 16 x 2                | 5 x 8             | 4-bit or 8-bit | 5.0V @ 1.5mA  | White - Blue       | 5, 6   | 3.2 x 1.4 x 0.5               | 2.5 x 0.6                 | 10.95   | 9.95   | 8.95   |
| 1954674        | Tinsharp    | TC1602B-W               | 16 x 2                | 5 x 8             | 8-bit          | 5.0V @ 1.3mA  | White-Black        | —      | 3.1 x 1.4 x 0.4               | 2.5 x 0.4                 | 14.95   | 13.49  | 11.95  |
| <b>2118627</b> | Newhaven    | NHD-0216S-NSW-BBW       | 16 x 2                | 5 x 8             | 4-bit or 8-bit | 5.0V @ 1.5mA  | White-Blue         | 5, 6   | 4.8 x 1.7 x 0.5               | 3.9 x 0.9                 | 21.95   | 20.49  | 18.95  |
| 365982         | PicVue      | PVC160206QYL04          | 16 x 2                | 5 x 8             | 8-bit          | 5.0V @ 1.6mA  | Black-Yellow/Green | —      | 3.3 x 1.2 x 0.5               | 2.4 x 0.6                 | 13.95   | 12.49  | 10.95  |
| 2081166        | Optrex      | DMC16249                | 16 x 2                | 5 x 8             | 4-bit or 8-bit | 5.0V @ 3.0mA  | Black-Grey -None   | —      | 3.1 x 1.4 x 0.4               | 2.5 x 0.5                 | 9.95    | 8.95   | 7.95   |
| 210761         | Various     | UC-16401 (Samsung)      | 16 x 4                | 5 x 8             | 4-bit or 8-bit | 6.5V @ 2.2mA  | Black-None         | 1, 3   | 3.4 x 2.4 x 0.3               | 2.4 x 1.0                 | 24.95   | 22.49  | 19.95  |
| 206615         | Samsung     | 9936                    | 20 x 1                | 5 x 7             | 4-bit or 8-bit | 5.5V @ 3.0mA  | Black-None         | 4      | 7.2 x 1.6 x 0.4               | 6.5 x 1.3                 | 9.95    | 8.95   | 7.95   |
| 2115451        | Hantronix   | HDM20216H-3-U10S        | 20 x 2                | 5 x 7             | 8-bit          | 5.0V @ 2.2mA  | Gray-White-None    | —      | 4.6 x 1.5 x 0.4               | 3.3 x 0.7                 | 12.95   | 11.49  | 9.95   |
| 2115469        | Hantronix   | HDM20216H-3-VH0P        | 20 x 2                | 5 x 7             | 8-bit          | 5.0V @ 2.2mA  | Yellow-White-None  | —      | 4.6 x 1.5 x 0.4               | 3.3 x 0.7                 | 12.95   | 11.49  | 9.95   |
| 171724         | Ampire      | AC-202A                 | 20 x 2                | 5 x 8             | 8-bit          | 5.0V @ 1.7mA  | Black-Yellow/Green | 2, 3   | 4.6 x 1.5 x 0.4               | 3.3 x 0.7                 | 24.95   | 22.49  | 20.25  |
| <b>2118635</b> | Newhaven    | NHD-0220DZ-FL-YBW       | 20 x 2                | 5 x 8             | 4-bit or 8-bit | 5.0V @ 1.5mA  | Blue-Yellow/Green  | 5, 6   | 4.6 x 1.5 x 0.4               | 3.3 x 0.7                 | 17.95   | 16.95  | 15.95  |
| <b>2118643</b> | Newhaven    | NHD-0420DZ-FL-YBW       | 20 x 4                | 5 x 8             | 4-bit or 8-bit | 5.0V @ 3.5mA  | Blue-Yellow/Green  | 5, 7   | 3.9 x 2.4 x 0.6               | 3.0 x 1.0                 | 21.95   | 20.49  | 18.95  |
| 1946050        | Goldentek   | GM-C2004A               | 20 x 4                | 5 x 8             | 8-bit          | 5.0V @ 1.5mA  | Blue-Grey-None     | —      | 3.8 x 2.7 x 0.3               | 3.0 x 1.0                 | 9.95    | 8.95   | 7.95   |
| 658831         | Hantronix   | HDM402162H-4-S90P       | 40 x 2                | 5 x 7             | 8-bit          | 5.0V @ 2.2mA  | Black-None         | 3      | 7.2 x 1.3 x 0.4               | 6.1 x 0.6                 | 7.95    | 6.95   | 6.25   |
| 658929         | Hantronix   | HDM40216H-4-S9RP        | 40 x 2                | 5 x 7             | 8-bit          | 5.0V @ 2.2mA  | Black-None         | 3      | 7.2 x 1.3 x 0.4               | 6.1 x 0.6                 | 9.95    | 8.95   | 7.95   |
| 658937         | Hantronix   | HDM40216L-4-LCWF        | 40 x 2                | 5 x 7             | 8-bit          | 5.0V @ 3.0mA  | Black-Yellow/Green | 3      | 7.2 x 1.3 x 0.6               | 6.1 x 0.6                 | 20.95   | 18.95  | 16.95  |
| 652332         | Seiko Inst. | DMC4024                 | 40 x 4                | 5 x 8             | 8-bit          | 5.0V @ 12mA   | Black-None         | —      | 7.5 x 2.1 x 0.4               | 5.5 x 0.9                 | 22.95   | 19.95  | 16.95  |
| 658953         | Hantronix   | HDM64GS12L-4-N31S       | 128 x 64              | 128 x 64          | 8-bit          | 5.0V @ 2.0mA  | Black-None         | 4      | 3.0 x 2.1 x 0.4               | 2.4 x 1.3                 | 19.95   | 17.95  | 15.95  |
| <b>2118694</b> | Newhaven    | NHD-12864AZ-FSW-GBW-VZ  | 128 x 64              | 128 x 64          | 8-bit          | 5.0V @ 3.5mA  | Blue - White       | 5, 8   | 3.7 x 2.8 x 0.5               | 2.8 x 1.6                 | 25.95   | 24.49  | 23.95  |
| <b>2118707</b> | Newhaven    | NHD-24064CZ-FSW-GBW-VZ  | 240 x 64              | 240 x 64          | 8-bit          | 5.0V @ 7.0mA  | Blue -White        | 5, 9   | 4.6 x 1.8 x 0.5               | 3.8 x 1.2                 | 49.95   | 48.95  | 47.95  |

† 1. Control LSI HD44780 & column driver MSM5259 or equivalents; 2. Controller KS0066U or equivalent; 3. Recommended power supply P/N 164101, pg 123; 4. Dot Graphic LCD display  
5. Recommended power supply P/N 252701, pg 121 6. Controller SPLC780D or equivalent 7. Controller SPLC780D-01 or equivalent 8. Controller KS0108B 9. Controller RA6963

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above



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\*Web Code: QAW

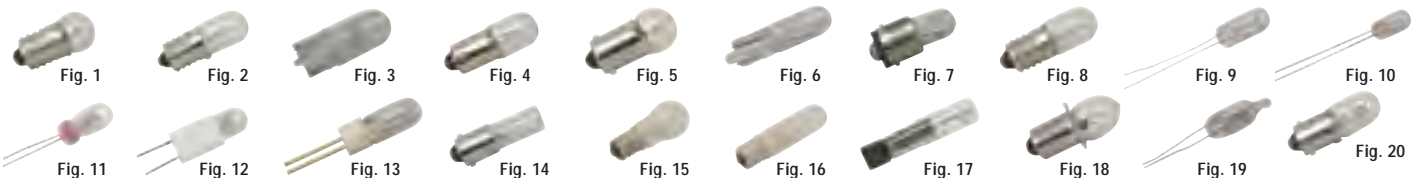


| 150990   |                | 2118651                 |                      | 2118678        |                        | 157323              |           | 281391                     |                        | 281412  |         | 694381  |  |  |
|----------|----------------|-------------------------|----------------------|----------------|------------------------|---------------------|-----------|----------------------------|------------------------|---------|---------|---------|--|--|
| Part No. | Manufacturer   | Mfr. Part No.           | Characters x Lines   | Input Data     | Input Voltage (V @ mA) | Letters - Backlight | Notes†    | Module Size (W" x H" x D") | Display Size (W" x H") | Pricing |         |         |  |  |
|          |                |                         |                      |                |                        |                     |           |                            |                        | 1       | 5       | 25      |  |  |
| 150990   | Scott Edwards  | ILM-216L                | 16 x 2               | 1200-9600      | 4.8-5.5 @ 5            | Black-Yellow/Green  | 1,2,5     | 3.2 x 2.0 x 0.5            | 2.8 x 1.0              | \$49.95 | \$44.95 | \$41.95 |  |  |
| 2118651  | Newhaven       | NHD-0216K3Z-FL-GBW      | 16 x 2               | 9600 (default) | 5.0V @ 125mA           | Blue-Yellow/Green   | —         | 3.2 x 1.4 x 0.5            | 2.5 x 0.6              | 18.95   | 16.95   | 14.95   |  |  |
| 2118660  | Newhaven       | NHD-0126K3Z-FS(RGB)-FBW | 16 x 2               | 9600 (default) | 5.0V @ 18mA            | Black-RGB           | —         | 3.2 x 1.4 x 0.5            | 2.5 x 0.6              | 23.95   | 21.49   | 18.95   |  |  |
| 2081975  | Crystal Fonz   | CFA632-NFA-KS           | 16 x 2               | 2400-19,200    | 5.0V @ 9               | Black-None          | 5         | 4.3 x 1.7 x 0.6            | 3.3 x 0.9              | 29.95   | 26.95   | 23.95   |  |  |
| 133129   | Scott Edwards  | BPI-216N                | 16 x 2               | 2400 or 9600   | 4.8-5.5 @ 3            | Black-None          | 1,2,11    | 3.1 x 1.4 x 0.7            | 2.8 x 1.0              | 55.95   | 49.95   | 44.95   |  |  |
| 174166   | Matrix Orbital | LK162-12R               | 16 x 2               | 1200-19,200    | 5.0 @ 9                | Black-Yellow/Green  | 1,3,4,6   | 3.2 x 1.5 x 0.8            | 2.5 x 0.7              | 59.95   | 56.95   | 53.95   |  |  |
| 2118678  | Newhaven       | NHD-0220D3Z-FL-GBW      | 20 x 2               | 9600 (default) | 5.0V @ 245mA           | Blue-Yellow/Green   | —         | 4.6 x 1.5 x 0.5            | 3.3 x 1.1              | 21.95   | 19.95   | 17.95   |  |  |
| 174174   | Matrix Orbital | LK202-25R               | 20 x 2               | 1200-19,200    | 5.0 @ 9                | Black-Yellow/Green  | 1,7,10    | 4.6 x 1.5 x 1.1            | 3.1 x 0.7              | 44.95   | 42.95   | 39.95   |  |  |
| 693986   | Matrix Orbital | LK202-25-IYR            | 20 x 2               | 1200-19,200    | 5.0 @ 9                | Yellow/Green-Black  | 1,7,10,12 | 4.6 x 1.5 x 1.1            | 3.1 x 0.7              | 39.95   | 36.95   | 34.95   |  |  |
| 158166   | Scott Edwards  | SGX-120L                | 20 x 4 w/ graphics   | 2400 or 9600   | 4.8-5.5 @ 15           | Yellow-None         | 1,2,5     | 3.1 x 1.9 x 0.8            | 2.6 x 1.1              | 119.95  | 109.95  | 99.95   |  |  |
| 150957   | Matrix Orbital | LCD2041                 | 20 x 4               | 1200-19,200    | 5.0 @ 10               | Black-Yellow/Green  | 1,3,4,6   | 3.9 x 2.4 x 0.7            | 3.0 x 1.0              | 69.95   | 66.49   | 62.95   |  |  |
| 2118686  | Newhaven       | NHD-0420D3Z-FL-GBW      | 20 x 4               | 9600 (default) | 5.0V @ 245mA           | Blue-Yellow/Green   | —         | 3.9 x 2.4 x 0.5            | 3.0 x 1.0              | 23.95   | 21.49   | 18.95   |  |  |
| 157323   | Matrix Orbital | LK204-25R               | 20 x 4 w/ keypad     | 1200-19,200    | 5.0 @ 16               | Black-Yellow/Green  | 1,3,4,6   | 3.7 x 2.4 x 1.1            | 3.0 x 1.0              | 74.95   | 70.95   | 67.95   |  |  |
| 694170   | Matrix Orbital | LK204-25-IYR            | 20 x 4 w/ keypad     | 1200-19,200    | 5.0 @ 16               | Yellow-Blk          | 1,7,10,12 | 3.9 x 2.4 x 1.2            | 3.0 x 1.0              | 68.95   | 65.45   | 62.45   |  |  |
| 281391   | Matrix Orbital | GLK12232-25-SM          | 122 x 32 w/ graphics | 9600-115,000   | 5.0 @ 250              | Blue-White          | 1,8       | 3.4 x 1.4 x 0.5            | 2.4 x 0.7              | 74.95   | 70.95   | 67.95   |  |  |
| 281404   | Matrix Orbital | GLK12232-25-FGW         | 122 x 32 w/ graphics | 9600-115,000   | 5.0 @ 20               | Black-White         | 1,8       | 3.9 x 2.4 x 0.4            | 3.3 x 1.4              | 78.95   | 77.95   | 76.95   |  |  |
| 174182   | Matrix Orbital | GLC24064                | 240 x 64 w/ graphics | 1200-19,200    | 5.0 @ 31               | Black-Yellow/Green  | 1,3,6     | 7.1 x 2.6 x 0.7            | 5.2 x 1.5              | 165.95  | 157.95  | 149.95  |  |  |
| 281412   | Matrix Orbital | GLK24064-25             | 240 x 64 w/ graphics | 9600-115,000   | 5.0 @ 20               | Black-Yellow/Green  | 1,9       | 7.1 x 2.6 x 1.1            | 5.0 x 1.3              | 149.95  | 142.95  | 135.95  |  |  |
| 694381   | Matrix Orbital | GLK24064-25-WBR         | 240 x 64 w/ graphics | 9600-115,000   | 5.0 @ 35               | White-Blue          | 1,9,13    | 7.1 x 2.6 x 0.7            | 5.0 x 1.3              | 149.95  | 142.95  | 135.95  |  |  |

1. For a power supply, Jameco recommends P/N 164101, pg 123
2. Includes instruction codes for character generation, cursor control, printing, etc. (Examples for Stamps in PBASIC included)
3. Manual included
4. Connect 16 modules using the same two wire interface
5. EEPROM stores text font, settings, and text screen

6. Backlight control, bar graphs, large digits, multiple displays, software contrast control, auto line wrapping & auto scroll feature
7. Connect up to 127 modules on the same 2-wire interface
8. 122 x 32 pixel graphic display, text display using built-in or user supplied fonts, adjustable contrast, backlighting & keypad interface
9. 240 x 64 pixel graphic display, text display using built-in or user supplied fonts, adjustable contrast, backlighting & keypad interface

10. Built-in font provision for up to 8-user defined characters, software controlled brightness, use up to a 25-key keypad with one 10-key buffer, 6 general purpose outputs, horizontal or vertical bar graphs
11. LCD Serial Backpack\* accepts RS232, CMOS or TTL signal
12. Inverse yellow
13. White text/blue background



\*Web Code: DBH

## Incandescent Lamps

\* Order in multiples of 10

| Part No. | Cross Ref. | *Mfr. | Fig. | Description              | Volts | MSCP | 1     | 10    | 100   |
|----------|------------|-------|------|--------------------------|-------|------|-------|-------|-------|
| 209390   | 14         | JVP   | 1    | G3 1/2 miniature screw   | 2.47  | .50  | \$.45 | \$.39 | \$.35 |
| 209402   | 40         | JVP   | 2    | T3 1/4 miniature screw   | 6.3   | .50  | .35   | .29   | .25   |
| 209411   | 44         | JVP   | 3    | T3 1/4 miniature bayonet | 6.3   | .90  | .29   | .25   | .19   |
| 209429   | 46         | JVP   | 2    | T3 1/4 miniature screw   | 6.3   | .90  | .49   | .45   | .39   |
| 209437   | 47         | JVP   | 4    | T3 1/4 miniature bayonet | 6.3   | .50  | .25   | .22   | .19   |
| 210403   | 51         | JVP   | 5    | G3 1/2 miniature bayonet | 7.5   | 1.0  | *     | .07   | .06   |
| 209453   | 53         | ♦     | 5    | G3 1/2 miniature bayonet | 14.4  | 1.0  | *     | .19   | .15   |
| 209461   | 73         | ♦     | 6    | T1 3/4 wedge             | 14    | .30  | .29   | .25   | .19   |
| 209488   | 86         | JVP   | 6    | T1 3/4 wedge             | 6.3   | .40  | .25   | .19   | .15   |
| 209509   | 161        | ♦     | 3    | T3 1/4 wedge             | 14    | 1.0  | *     | .15   | .12   |
| 209525   | 194        | ♦     | 3    | T3 1/4 wedge             | 14    | 2.0  | *     | .08   | .07   |
| 209761   | 685        | ♦     | 7    | T1 midget flange         | 5     | .05  | .29   | .25   | .19   |
| 209824   | 1813       | ♦     | 4    | T3 1/4 miniature bayonet | 14.4  | .86  | *     | .08   | .07   |
| 209832   | 1815       | ♦     | 4    | T3 1/4 miniature bayonet | 14    | 1.4  | *     | .08   | .07   |
| 209859   | 1818       | JVP   | 4    | T3 1/4 miniature bayonet | 24    | 3.3  | .35   | .29   | .25   |
| 209883   | 1821       | JVP   | 8    | T3 1/4 screw             | 28    | 3.4  | *     | .08   | .07   |
| 141073   | 2182       | JVP   | 9    | T1 3/4 wire terminal     | 14    | .34  | .49   | .45   | .39   |
| 141066   | 2200       | JVP   | 9    | T1 3/4 wire terminal     | 5     | .05  | .49   | .45   | .39   |
| 141057   | 6833       | JVP   | 10   | T 3/4 wire terminal      | 5     | .05  | .49   | .45   | .39   |

## Incandescent Lamps (Cont.)

\* Order in multiples of 10

| Part No. | Cross Ref. | *Mfr. | Fig. | Description                   | Volts | MSCP | 1     | 10    | 100   |
|----------|------------|-------|------|-------------------------------|-------|------|-------|-------|-------|
| 1943916  | CM8-A241   | ♦     | 11   | T1 wire terminal w/ blue cap  | 12    | .15  | \$.29 | \$.25 | \$.19 |
| 210008   | 7328       | JVP   | 12   | T1 3/4 bi-pin                 | 6     | .60  | .69   | .59   | .55   |
| 141006   | 7361       | ♦     | 12   | T1 3/4 bi-pin                 | 5     | .05  | .45   | .39   | .35   |
| 210032   | 7382       | JVP   | 12   | T1 3/4 bi-pin                 | 14    | .30  | .65   | .59   | .55   |
| 210041   | 7387       | JVP   | 12   | T3 1/4 bi-pin                 | 28    | .30  | .65   | .59   | .55   |
| 210083   | 7839       | JVP   | 13   | T1 bi-pin                     | 28    | .15  | .35   | .29   | .25   |
| 210092   | 120MB      | JVP   | 14   | T2 miniature bayonet          | 120   | 1200 | .75   | .69   | .55   |
| 309673   | 6S6        | ♦     | 15   | S6 candelabra                 | 120   | —    | *     | .08   | .07   |
| 309681   | 20T6       | ♦     | 16   | T6 1/2 20W intermediate       | 120   | —    | *     | .19   | .15   |
| 210198   | 48PSB      | JVP   | 17   | T1 tel. slide base type 5     | 48    | 1800 | .35   | .29   | .25   |
| 210219   | 60PSB      | JVP   | 17   | T2 tel. slide base type 5     | 60    | 2200 | .45   | .39   | .35   |
| 210374   | PR6        | ♦     | 18   | B3 1/2 sngl cont. mini flange | 2.47  | .45  | *     | .08   | .07   |

## Neon Lamps

\* Order in multiples of 10

\*Web Code: VAD

| Part No. | Cross Ref.   | *Mfr. | Fig. | Description              | Voltage | 1     | 10    | 100   |
|----------|--------------|-------|------|--------------------------|---------|-------|-------|-------|
| 27351    | A1A (NE-2)   | JVP   | 19   | Wire terminal .6mA       | 65-120  | \$.35 | \$.29 | \$.25 |
| 210260   | A9A (NE-2E)  | JVP   | 19   | Wire terminal .7mA       | 65-120  | *     | .19   | .15   |
| 210315   | C2A (NE-2H)  | JVP   | 19   | Wire terminal            | 65-120  | .29   | .25   | .19   |
| 210286   | B2A (NE-51H) | JVP   | 20   | T3 1/4 miniature bayonet | 65-120  | .45   | .39   | .35   |

\* JVP = Jameco ValuePro ♦ Manufacturer Varies

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 197.

## Neon Panel Mount Lamps

- Input voltage: 120V
- Mounting hole dia.: 5/8" (16mm)
- Solder terminals: 0.196" (5mm)
- 1585485:
  - Rectangular
  - 6" wire leads
  - Size: .91"L x .38"W x .77"D

\*Web Code: JBJ

| Part No. | Cross Ref. No.   | Color  | 1      | 10     | 100    |
|----------|------------------|--------|--------|--------|--------|
| 215803   | R9-71N-05-120V-R | Red    | \$1.95 | \$1.75 | \$1.59 |
| 215812   | R9-71N-05-120V-Y | Yellow | 1.49   | 1.35   | 1.19   |
| 215830   | R9-71N-05-120V-G | Green  | 1.49   | 1.35   | 1.19   |
| 1585485  | 32501001714      | Green  | ...    | .19    | .15    |

## Incandescent/Neon Panel Mount Lamps

- Mounting hole: .310"Dia.
- 2099788: Incandescent type
  - 2.7VDC @ 60mA
  - 10" lead wires
- 1765849: Neon type
  - 105VAC to 125VAC
  - 4.4"/4.8" lead wires

| Part No. | Mfr.      | Part No. | Color | 1      | 10     | 100    |
|----------|-----------|----------|-------|--------|--------|--------|
| 2099788  | 970D00146 | Red      | ...   | \$1.95 | \$1.75 | \$1.49 |
| 1765849  | 2150A1    | Red      | ...   | 2.49   | 2.25   | 1.95   |

## LED Panel Mount Indicators

- Easy panel installation
- Panel/status/instrument indicators
- 141111/141129/141137: Chrome housing

\*Web Code: UAU

| Part No. | Cross Ref. No.        | Mfr. | LED Size | Color | Dimensions (in.) | Mounting Hole | Vf @ If    | Pricing              |
|----------|-----------------------|------|----------|-------|------------------|---------------|------------|----------------------|
|          |                       |      |          |       | L A B            |               |            | 1 10 100             |
| 141111   | L922SRD               | JVP  | T1       | Red   | .56 .34 .25      | .23"          | 2V @ 20mA  | \$ .85 \$ .75 \$ .69 |
| 141129   | L913RD                | JVP  | T1       | Red   | .56 .39 .32      | .24"          | 2V @ 20mA  | 1.39 1.25 1.15       |
| 141137   | L917RD                | JVP  | T1 1/4   | Red   | .70 .55 .47      | .31"          | 2V @ 20mA  | 1.19 1.05 .95        |
| 637183   | UT2U1G-H113-R801-W05* | LED  | T1 1/4   | Green | .55 5.5 5.5      | .24"          | 12V @ 10mA | 1.19 1.05 .95        |

\* Has internal resistor to run 12V@10mA

## 12V Incandescent Panel Mount Lamps

- 215715/215723/215732: Solder terminals - 0.196" (5mm)

\*Web Code: HBJ

| Part No. | Cross Ref. No.    | Fig. | Color  | Mounting Hole | Wire Length  | 1      | 10     | 100    |
|----------|-------------------|------|--------|---------------|--------------|--------|--------|--------|
| 215750   | R9-55B-W130-12V-R | 1    | Red    | 9/32" (7mm)   | 4.9" (125mm) | \$1.49 | \$1.35 | \$1.19 |
| 215758   | R9-55B-W130-12V-Y | 1    | Yellow | 9/32" (7mm)   | 4.9" (125mm) | 1.49   | 1.35   | 1.19   |
| 215766   | R9-55B-W130-12V-G | 1    | Green  | 9/32" (7mm)   | 4.9" (125mm) | 1.65   | 1.55   | 1.39   |
| 215774   | R9-46B-W100-12V-R | 2    | Red    | 1/2" (13mm)   | 3.9" (100mm) | 1.49   | 1.35   | 1.19   |
| 215782   | R9-46B-W100-12V-Y | 2    | Yellow | 1/2" (13mm)   | 3.9" (100mm) | .75    | .65    | .55    |
| 215791   | R9-46B-W100-12V-G | 2    | Green  | 1/2" (13mm)   | 3.9" (100mm) | 1.49   | 1.35   | 1.19   |
| 215715   | R9-71B-05-12V-R   | 3    | Red    | 5/8" (16mm)   | Terminals    | 1.85   | 1.69   | 1.49   |
| 215723   | R9-71B-05-12V-Y   | 3    | Yellow | 5/8" (16mm)   | Terminals    | .75    | .65    | .55    |
| 215732   | R9-71B-05-12V-G   | 3    | Green  | 5/8" (16mm)   | Terminals    | 1.49   | 1.35   | 1.19   |



## Ultraviolet Lamp & Ballast (Rapid Start)

| Part No. | Mfr.      | Mfr. Part No. | Description             | 1       | 10      | 50      |
|----------|-----------|---------------|-------------------------|---------|---------|---------|
| 2100128  | Philips   | TUV25W/G25    | 20" T5 ultraviolet lamp | \$29.95 | \$26.95 | \$23.95 |
| 2100005  | Lightwave | LW20EB20-120  | 25W rapid start ballast | 5.95    | 5.39    | 4.79    |



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## 4" to 12" Fluorescent Lamps & Power Supplies

Now you can easily and affordably mount these fluorescent lamps to add cool cold-cathode effects and give your display a richer look and feel.

| Part No. | *Mfr. | Mfr. Part No. | Description  | Size (L" x Dia.) | 1      | 10     | 25     |
|----------|-------|---------------|--|------------------|--------|--------|--------|
| 239610   | VLM   | FLW1          | Cool white lamp                                      | 4 x .160         | \$4.95 | \$4.49 | \$3.95 |
| 2077474  | JKL   | FLC10-12      | Cool white lamp                                      | 10 x .120        | 5.95   | 5.49   | 4.95   |
| 2077458  | JKL   | FLC10-16      | Cool white lamp                                      | 10 x .160        | 5.95   | 5.49   | 4.95   |
| 2077466  | JKL   | FLC12-12      | Cool white lamp                                      | 12 x .120        | 5.95   | 5.49   | 4.95   |
| 239636   | VLM   | FLPS1         | 12VDC Power Supply for P/N 239610                    |                  | 10.95  | 9.95   | 8.95   |
| 2077440  | VLM   | FLPS          | 12VDC Power Supply for P/N 2077474, 2077458, 2077466 |                  | 7.95   | 6.95   | 5.95   |

† 1" solder terminals

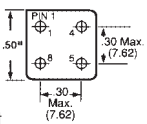
## Oscillators

### TTL Oscillators

- Frequency stability  $\pm 100$ ppm
- Operating temp.: 0°C to 70°C
- Output load TTL: 10 TTL max.
- Machine tooled 4 pins

#### Half Can

- Input voltage: +3.3VDC  $\pm 10\%$
- Most fit into a 8-pos. DIP socket P/N 676385, pg 40



| Pin # | Function |
|-------|----------|
| 1     | N/C      |
| 4     | GND      |
| 5     | Output   |
| 8     | +5VVS    |

\*Web Code: MAM

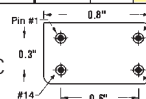
| Part No. | *Mfr. | Frequency (MHz) | Max. Input Current | Rise Fall Time | Pricing              |
|----------|-------|-----------------|--------------------|----------------|----------------------|
|          |       |                 |                    |                | 1 10 100             |
| 325462   | ♦     | 1.0             | 15mA               | 10ns           | \$1.19 \$1.09 \$ .95 |
| 325471   | ♦     | 1.2288          | 15mA               | 10ns           | .75 .65 .55          |
| 325497   | ♦     | 2.0             | 25mA               | 5ns            | .75 .65 .55          |
| 325518   | JVP   | 3.6864          | 15mA               | 10ns           | .95 .85 .75          |
| 325526   | JVP   | 4.0             | 15mA               | 10ns           | 1.35 1.19 1.09       |
| 325569   | JVP   | 8.0             | 30mA               | 10ns           | 1.35 1.19 1.09       |
| 354829   | JVP   | 10.0            | 25mA               | 5ns            | .95 .85 .75          |
| 102779   | ♦     | 10.0            | 45mA               | 6ns            | 1.19 1.09 .95        |
| 325631   | JVP   | 16.257          | 30mA               | 10ns           | .95 .85 .75          |
| 325649   | JVP   | 18.432          | 30mA               | 10ns           | .95 .85 .75          |
| 325665   | JVP   | 20.0            | 30mA               | 10ns           | 1.35 1.19 1.09       |

#### Half Can (Continued)

| Part No. | *Mfr. | Frequency (MHz) | Max. Input Current | Rise Fall Time | Pricing              |
|----------|-------|-----------------|--------------------|----------------|----------------------|
|          |       |                 |                    |                | 1 10 100             |
| 325681   | JVP   | 28.322          | 70mA               | 5ns            | \$ .95 \$ .85 \$ .75 |
| 325730   | JVP   | 40.0            | 70mA               | 5ns            | 1.35 1.19 1.09       |
| 325737   | JVP   | 48.0            | 70mA               | 5ns            | .95 .85 .75          |

#### Full Can

- Input volt.: +5VDC  $\pm 0.5$ VDC
- Most fit into a 14-pos. DIP socket P/N 133006, pg 40



\*Web Code: XAD

| Part No. | *Mfr. | Frequency (MHz) | Max. Input Current | Rise Fall Time | Pricing              |
|----------|-------|-----------------|--------------------|----------------|----------------------|
|          |       |                 |                    |                | 1 10 50              |
| 27861    | ♦     | 1.0             | 7mA                | 15ns           | \$1.95 \$1.79 \$1.59 |
| 144207   | ♦     | 1.059           | 50mA               | 10ns           | .75 .65 .55          |
| 27879    | ♦     | 1.8432          | 7mA                | 15ns           | 1.95 1.79 1.59       |
| 27924    | ♦     | 2.0             | 7mA                | 15ns           | 1.49 1.35 1.19       |
| 27967    | ♦     | 4.0             | 7mA                | 10ns           | 1.95 1.79 1.59       |
| 354889   | JVP   | 4.0             | 15mA               | 10ns           | 1.49 1.35 1.19       |

#### Full Can (Continued)

| Part No. | *Mfr. | Frequency (MHz) | Max. Input Current | Rise Fall Time | Pricing              |
|----------|-------|-----------------|--------------------|----------------|----------------------|
|          |       |                 |                    |                | 1 10 50              |
| 325374   | JVP   | 4.9152          | 15mA               | 10ns           | \$ .95 \$ .85 \$ .75 |
| 325358   | JVP   | 7.3728          | 15mA               | 10ns           | .95 .85 .75          |
| 27991    | ♦     | 8.0             | 15mA               | 15ns           | 1.95 1.79 1.59       |
| 354897   | JVP   | 8.0             | 30mA               | 10ns           | .95 .85 .75          |
| 325331   | JVP   | 9.216           | 30mA               | 10ns           | .95 .85 .75          |
| 27887    | ♦     | 10.0            | 15mA               | 10ns           | 1.95 1.79 1.59       |
| 27895    | ♦     | 12.0            | 15mA               | 10ns           | 1.95 1.79 1.59       |
| 27908    | ♦     | 16.0            | 15mA               | 10ns           | .75 .65 .55          |
| 325382   | JVP   | 18.432          | 30mA               | 10ns           | .95 .85 .75          |
| 27932    | ♦     | 20.0            | 17mA               | 10ns           | 1.49 1.35 1.19       |
| 354918   | JVP   | 20.0            | 30mA               | 10ns           | .95 .85 .75          |
| 27941    | ♦     | 32.0            | 18mA               | 7ns            | .75 .65 .55          |
| 76822    | ♦     | 33.0            | 18mA               | 6ns            | 1.95 1.79 1.59       |
| 153226   | ♦     | 40.0            | 15mA               | 6ns            | 1.19 1.09 .95        |
| 76831    | ♦     | 50.0            | 25mA               | 6ns            | .75 .65 .55          |
| 2095381  | ♦     | 60.0            | 65mA               | 5ns            | 1.19 .99 .79         |
| 325420   | JVP   | 66.666          | 70mA               | 5ns            | .95 .85 .75          |
| 76857    | ♦     | 100.0           | 25mA               | 3ns            | 1.95 1.79 1.49       |

\* JKL = JKL Components | JVP = Jameco ValuePro | LED = Ledtech | VLM = Velleman Inc. | ♦ = Manufacturer Varies

\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

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## FOX SMD Oscillator

5.0V HCMOS/TTL output

- Frequency stability:  $\pm 100\text{ppm}$
- Dimensions: 7.5mmW x 1.5mmH x 5.2mmD

| Part No. | Mfr. Part No. | Freq. (MHz) | Imped. | Pricing |        |        |
|----------|---------------|-------------|--------|---------|--------|--------|
|          |               |             |        | 1       | 10     | 100    |
| 1592263  | F3345-200     | 20          | 25mA   | \$1.59  | \$1.39 | \$1.19 |

## Tuning Forks

- Operating temperature range:  $-10^{\circ}\text{C}$  to  $+60^{\circ}\text{C}$
- Frequency: 32.768kHz
- Drive level: 1mW
- Frequency tolerance:  $\pm 50\text{ppm}$
- Aging for first year:  $\pm 3\text{ppm}$  (max.  $+25^{\circ}\text{C}$ )

| Part No. | Comparable to: | Imped. | Pricing |     |     |
|----------|----------------|--------|---------|-----|-----|
|          |                |        | 1       | 10  | 100 |
| 14584    | CY32.76        | 10.5pF | .35     | .29 | .25 |
| 325244   | JVP-325243     | 12.5pF | .35     | .29 | .25 |

## Crystal Oscillator Sockets

- Good for prototyping and PCB mounting
- Can be PCB mounted without the modifications that would be needed with DIP-IC sockets
- Low profile solder tail; machine tooled on 4 pins

| Part No. | Description                 | *Web Code: COS | 1   | 10  | 100 |
|----------|-----------------------------|----------------|-----|-----|-----|
| 676385   | 8-pos. socket for half can  |                | .45 | .39 | .35 |
| 133006   | 14-pos. socket for full can |                | .55 | .45 | .35 |

## Littlefuse Fuse Holders

\*Web Code: UEA

- Omni-Blok® Molded Base Fuse Block
- Solder terminal • 1-5x20mm, 2-3AG
- Dielectric strength: 1500V min.
- Clip/terminals: tin plated spring brass

| Part No. | Mfr. Part No. | Curr. Rating | Size  | 1   | 10  | 100 |
|----------|---------------|--------------|-------|-----|-----|-----|
| 1711947  | 354001-GY     | 15A, 300V    | 1 ... | .95 | .85 | .79 |
| 1712608  | 520101        | 10A, 300V    | 2 ... | .69 | .65 | .59 |

## Panel Mount for 3AG Fuse

- Dielectric strength: 2400V min.
- Black thermoplastic, UL94V-0
- Terminals: copper & copper alloy, tin plated

| Part No. | Mfr. Part No. | Curr. Rating | 1      | 10     | 100    |
|----------|---------------|--------------|--------|--------|--------|
| 1711681  | 342012        | 20A ...      | \$1.99 | \$1.69 | \$1.59 |

For R/C Crystal Oscillators, See page 189

JAMECO ValuePro

## Low Profile Fuse Clips

- Low contact resistance
- Withstands shock/vibration
- Order in multiples of 10

| Part No. | Description             | For Use With | Size (H" x W" x D" x P") | 10  | 100 | 500 |
|----------|-------------------------|--------------|--------------------------|-----|-----|-----|
| 119280   | 5mm, side leads         | 1            | .33 x .25 x .20 x .21    | .15 | .13 | .09 |
| 102860   | 5mm, front leads        | 1            | .37 x .25 x .21 x .19    | .15 | .13 | .09 |
| 2099438  | 1/4", side leads        | 2            | .42 x .25 x .20 x .21    | .15 | .13 | .09 |
| 102842   | 1/4", front leads (10A) | 2            | .32 x .27 x .25 x .23    | .15 | .13 | .09 |

## 5mm x 20mm Miniature Thumbscrew Cap Holders

- Straight solder terminal
- Size: 1.5"L x 0.6"Dia.

| Part No. | Approvals | Current      | Mounting Hole       | 1      | 10   | 100 | 500 |
|----------|-----------|--------------|---------------------|--------|------|-----|-----|
| 150464   | CE        | 6A @ 250VAC  | .50"Dia. x .43"Flat | \$1.09 | .99  | .89 | .79 |
| 102825   | UL/CSA    | 10A @ 250VAC | .50"Dia.            | 1.25   | 1.09 | .95 | .89 |

## 1/4" x 1/4" Standard Thumbscrew Cap Holders

- Straight solder terminal
- Current: 10A @ 250VAC

| Part No. | Approvals | Size (L" x Dia.) | Mounting Hole                 | 1    | 10   | 100  | 500 |
|----------|-----------|------------------|-------------------------------|------|------|------|-----|
| 120994   | CE        | 1.95" x .71"     | .58"Dia. (Double D-style)     | .95  | .85  | .69  | .65 |
| 18703    | UL/CSA    | 2.05" x .71"     | .58"Dia. x .52"Flat (D-style) | 1.59 | 1.35 | 1.19 | .95 |

## 1/4" x 1/4" PCB Fuse Holder

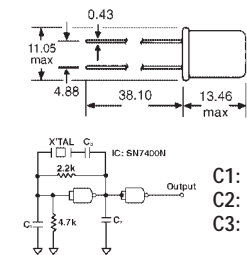
- 16A @ 250V

| Part No. | *Mfr. | Approvals  | Size (L" x Dia.) | Mounting Hole | 1      | 10     | 100    |
|----------|-------|------------|------------------|---------------|--------|--------|--------|
| 1769743  | BSM   | UL/CSA/VDE | 1.86 x .51       | .4 x .4 grid  | \$5.95 | \$5.49 | \$4.95 |

\* BSM = Bussman | JVP = Jameco ValuePro | ♦ Manufacturer Varies

## Crystals

- Frequency calibration tolerance:  $\pm 50\text{ppm}$  @  $25^{\circ}\text{C}$
- Freq. stability tolerance:  $\pm 50\text{ppm}$  from  $-10^{\circ}$  to  $+60^{\circ}\text{C}$
- Operating temperature:  $-10^{\circ}\text{C}$  to  $+60^{\circ}\text{C}$
- Shunt capacitance: 7pF max. • Drive level: 4.0mW max.

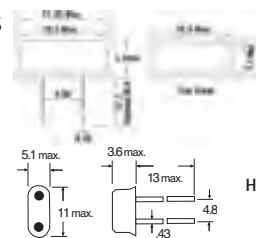


## HC49/U (HC18/U) Case

| Part No. | *Mfr. | Frequency (MHz) | Impedance | Pricing |     |     |
|----------|-------|-----------------|-----------|---------|-----|-----|
|          |       |                 |           | 1       | 10  | 100 |
| 102613   | ♦     | 1.8432          | 18pF      | .59     | .55 | .49 |
| 102621   | ♦     | 2.0             | Series    | .55     | .49 | .45 |
| 101274   | ♦     | 2.4576          | 32pF      | .59     | .55 | .49 |
| 14533    | ♦     | 3.579545        | 18pF      | .49     | .39 | .35 |
| 324364   | JVP   | 4.0             | Series    | .59     | .55 | .49 |
| 14592    | ♦     | 4.0             | 20pF      | .59     | .55 | .49 |
| 324371   | JVP   | 4.194           | 12pF      | *       | .19 | .15 |
| 324419   | JVP   | 5.0             | 20pF      | *       | .19 | .15 |
| 324451   | JVP   | 6.0             | 32pF      | *       | .19 | .15 |
| 324460   | JVP   | 6.0             | Series    | *       | .19 | .15 |
| 14710    | ♦     | 7.3728          | 30pF      | *       | .19 | .15 |
| 14728    | ♦     | 8.0             | Series    | .59     | .55 | .49 |
| 14381    | ♦     | 10.0            | Series    | .59     | .55 | .49 |
| 120061   | ♦     | 11.0592         | Series    | .59     | .55 | .49 |
| 324128   | JVP   | 11.0592         | Series    | .25     | .22 | .19 |
| 324110   | JVP   | 11.0592         | 32pF      | .49     | .45 | .39 |
| 14402    | ♦     | 12.0            | Series    | .59     | .55 | .49 |
| 537799   | ♦     | 14.31818        | Series    | .25     | .22 | .19 |
| 14453    | JVP   | 16.0            | Series    | .49     | .39 | .35 |
| 324233   | JVP   | 18.432          | 20pF      | .49     | .39 | .35 |
| 324241   | JVP   | 19.6608         | 20pF      | .25     | .22 | .19 |
| 324268   | JVP   | 20.0            | 20pF      | .59     | .55 | .49 |
| 14517    | ♦     | 20.0            | Series    | .59     | .55 | .49 |
| 324398   | JVP   | 49.86           | 20pF      | *       | .19 | .15 |

HC49/U (HC18/U) Case

Dimensions in millimeters



\*Web Code: EAU

HC49/US Low Profile Case

## JAMECO ValuePro HC49/US Low Profile Case

| Part No. | *Mfr. | Frequency (MHz) | Impedance | Pricing |     |     |
|----------|-------|-----------------|-----------|---------|-----|-----|
|          |       |                 |           | 1       | 10  | 100 |
| 324988   | JVP   | 3.6864          | 18pF      | .49     | .45 | .39 |
| 324962   | JVP   | 4.0             | 20pF      | .59     | .55 | .49 |
| 324929   | JVP   | 5.0             | 20pF      | .59     | .55 | .49 |
| 324902   | JVP   | 5.0688          | 20pF      | .39     | .35 | .29 |
| 324865   | JVP   | 6.0             | Series    | .49     | .45 | .39 |
| 324857   | JVP   | 6.144           | 32pF      | .49     | .45 | .39 |
| 324849   | JVP   | 6.500           | 20pF      | .49     | .45 | .39 |
| 324822   | JVP   | 7.3728          | 20pF      | .49     | .45 | .39 |
| 324831   | JVP   | 7.3728          | 20pF      | .49     | .45 | .39 |
| 324814   | JVP   | 7.68            | 20pF      | .49     | .45 | .39 |
| 324786   | JVP   | 8.0             | 20pF      | .49     | .45 | .39 |
| 324769   | JVP   | 9.0             | Series    | .49     | .45 | .39 |
| 324742   | JVP   | 9.216           | Series    | .49     | .45 | .39 |
| 325227   | JVP   | 11.0592         | 20pF      | .49     | .45 | .39 |
| 325198   | JVP   | 12.0            | 20pF      | .59     | .55 | .49 |
| 325104   | JVP   | 18.432          | 20pF      | .49     | .45 | .39 |
| 325113   | JVP   | 18.432          | 20pF      | .49     | .45 | .39 |
| 325075   | JVP   | 19.6608         | 7pF       | .49     | .45 | .39 |
| 325964   | JVP   | 19.6608         | 20pF      | .49     | .45 | .39 |
| 325068   | JVP   | 20.00           | 20pF      | .59     | .55 | .49 |
| 325041   | JVP   | 20.48           | 20pF      | .49     | .45 | .39 |
| 325024   | JVP   | 24.0            | 20pF      | .59     | .55 | .49 |

† Industrial temperature range is  $-40^{\circ}\text{C}$  to  $85^{\circ}\text{C}$

## HC49/S Low Profile Case

- Operating temp.:  $-10^{\circ}$  to  $+60^{\circ}\text{C}$  •  $\pm 5\text{ppm}$ /year max.
- Drive level: 0.5mW (fundamental frequency)
- Frequency stability tolerance:  $\pm 50\text{ppm}$

| Part No. | Comparable: | Freq. (MHz) | Imped. | Pricing |     |     |
|----------|-------------|-------------|--------|---------|-----|-----|
|          |             |             |        | 1       | 10  | 100 |
| 137816   | CY3.5795    | 3.5759      | 17pF   | .39     | .29 | .25 |
| 137832   | CY4LP       | 4.0         | 17pF   | .49     | .35 | .29 |
| 137859   | CY8LP       | 8.0         | Series | .49     | .35 | .29 |
| 137875   | CY11.05LP   | 11.0592     | Series | .49     | .35 | .29 |
| 137891   | CY16LP      | 16.0        | Series | .49     | .35 | .29 |

\*Web Code: EEE

## Fuse Holders & Clips



## 5mm x 20mm Miniature Low Profile Fuse Holder

- Current: 10A @ 250VAC
- D-style

| Part No. | Approvals | Size (L" x Dia.) | Mounting Hole      | 1      | 10     | 100    |
|----------|-----------|------------------|--------------------|--------|--------|--------|
| 102832   | UL/CSA    | 1.4 x 0.6        | .5"Dia. x .46"flat | \$2.49 | \$2.19 | \$1.99 |

## 5mm x 20mm Miniature In-Line Fuse Holder

| Part No. | AWG | Wire Color | Body Size | 1   | 10  | 100 |
|----------|-----|------------|-----------|-----|-----|-----|
| 109330   | 20  | Red        | 1.8"L     | .69 | .65 | .59 |

## 1/4" x 1/4" Standard In-Line Fuse Holders

- Built-in spring ensures good fuse connection
- Vinyl covered wire with stranded copper center

| Part No. | AWG | Wire Lengths | Body Length | Color Body/Wire | 1    | 10   | 100  |
|----------|-----|--------------|-------------|-----------------|------|------|------|
| 109322   | 22  | 3.5/3"       | 2.4"        | Black/Red       | .79  | .75  | .69  |
| 102868   | 20  | 3/3"         | 2.2"        | White/Red       | .89  | .79  | .69  |
| 151918   | 18  | 6/6"         | 2.4"        | White/Red       | 1.19 | 1.09 | .95  |
| 108784   | 16  | 21/26"       | 2.2"        | Black/Orange    | 1.79 | 1.55 | 1.29 |
| 108792   | 14  | 19/25"       | 2.5"        | Black/Red       | 2.49 | 2.25 | 1.95 |

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 197.

JAMECO ValuePro

## 5mm x 20mm Mini Fast Acting GMA Fuses (250V)

\*Web Code: QAM

• Recommended for new designs

| Part No. | *Mfr. | Cross Ref. | Amps | 1     | 10    | 100   |
|----------|-------|------------|------|-------|-------|-------|
| 103887   | JVP   | GMA-250mA  | .25A | \$.29 | \$.25 | \$.22 |
| 102041   | JVP   | GMA-500mA  | .5A  | \$.29 | \$.25 | \$.22 |
| 103908   | JVP   | GMA-1A     | 1A   | \$.29 | \$.25 | \$.22 |
| 103916   | JVP   | GMA-2A     | 2A   | \$.29 | \$.25 | \$.22 |
| 103924   | JVP   | GMA-3A     | 3A   | \$.29 | \$.25 | \$.22 |
| 103932   | JVP   | GMA-5A     | 5A   | \$.29 | \$.25 | \$.22 |

## 1 1/4" x 1/4" Standard Fast Acting (250V) AGC/3AG Fuses

\*Web Code: AAB

| Part No. | *Mfr. | Cross Ref. | Amps | 1     | 10    | 100   |
|----------|-------|------------|------|-------|-------|-------|
| 69404    | JVP   | AGC-250mA  | .25A | \$.29 | \$.25 | \$.22 |
| 10410    | JVP   | AGC-0.5    | .5A  | \$.29 | \$.25 | \$.22 |
| 10373    | JVP   | AGC-1A     | 1A   | \$.29 | \$.25 | \$.22 |
| 652949   | LTL   | 312001.HXP | 1A   | \$.29 | \$.25 | \$.22 |
| 197528   | JVP   | AGC-1.6    | 1.6A | \$.29 | \$.25 | \$.22 |
| 10382    | JVP   | AGC-2A     | 2A   | \$.29 | \$.25 | \$.22 |
| 197536   | JVP   | AGC-2.5    | 2.5A | \$.29 | \$.25 | \$.22 |
| 69439    | JVP   | AGC-3R     | 3A   | \$.29 | \$.25 | \$.22 |
| 197544   | JVP   | AGC-4      | 4A   | \$.29 | \$.25 | \$.22 |
| 10402    | JVP   | AGC-5A     | 5A   | \$.29 | \$.25 | \$.22 |
| 197552   | JVP   | AGC-6.3    | 6.3A | \$.29 | \$.25 | \$.22 |
| 69462    | JVP   | AGC-10     | 10A  | \$.29 | \$.25 | \$.22 |
| 186301   | JVP   | AGC-16     | 16A  | \$.29 | \$.25 | \$.22 |

## Resettable Fuses

Polymer Positive Temperature Coefficient (PPTC) fuses have provided designers in numerous industries a new tool in their battle to improve product quality and performance.

As PPTC fuses are resettable, warranty costs and service calls are largely avoided.

• Rated voltage: (V<sub>MAX</sub>): 60V

• Max. current: (I<sub>MAX</sub>): 40A

• Lead length (D): 7.6mm min.

• Thickness (E): 3.1mm max.

• Blue Part No. = Limited Quantity Available

\*Web Code: SBF

| Part No. | Mfr. P/N | Hold Curr. (I <sub>HH</sub> , A) | Trip Curr. (I <sub>TH</sub> , A) | Fig. | Size (mm) |      |      |     | Pricing |       |       |
|----------|----------|----------------------------------|----------------------------------|------|-----------|------|------|-----|---------|-------|-------|
|          |          |                                  |                                  |      | A         | B    | C    | E   | 1       | 10    | 100   |
| 199832   | RA020-60 | 0.20                             | 0.40                             | 1    | 7.4       | 12.2 | 5.1  | 3.1 | \$.49   | \$.45 | \$.39 |
| 199858   | RA030-60 | 0.30                             | 0.60                             | 1    | 7.4       | 13.0 | 5.1  | 3.1 | \$.59   | \$.55 | \$.49 |
| 199874   | RA050-60 | 0.50                             | 1.00                             | 1    | 7.9       | 13.7 | 5.1  | 3.1 | \$.59   | \$.55 | \$.49 |
| 199891   | RA075-60 | 0.50                             | 1.50                             | 1    | 10.4      | 15.2 | 5.1  | 3.1 | \$.49   | \$.45 | \$.39 |
| 199882   | RA065-60 | 0.65                             | 1.30                             | 1    | 9.7       | 14.5 | 5.1  | 3.1 | \$.59   | \$.55 | \$.49 |
| 199912   | RA110-60 | 1.10                             | 2.20                             | 2    | 13.0      | 18.0 | 5.1  | 3.1 | \$.59   | \$.55 | \$.49 |
| 199997   | RB110-30 | 1.10                             | 2.20                             | 3    | 7.4       | 14.2 | 5.1  | 3.0 | \$.59   | \$.55 | \$.49 |
| 199938   | RA160-60 | 1.60                             | 3.20                             | 2    | 16.3      | 21.3 | 5.1  | 3.1 | \$.59   | \$.55 | \$.49 |
| 200062   | RB500-30 | 5.00                             | 10.00                            | 4    | 14.0      | 24.9 | 10.2 | 3.0 | \$.59   | \$.55 | \$.49 |

JAMECO ValuePro

## Ceramic Resonators

• Frequency accuracy: ±0.5% @ 25°C

• Extended temp. range: -20°C to +85°C

• Withstanding volt. (5 sec): 100V max.

324672

• Blue P/N = Limited Qty. Available

| Part No. | Product No.  | Frequency | Resistance | Pins | 1     | 10    | 100   |
|----------|--------------|-----------|------------|------|-------|-------|-------|
| 324620   | TZTA-6.00MT  | 6.0MHz    | 30Ω        | 2    | \$.39 | \$.35 | \$.29 |
| 324638   | TZTA-8.00MT  | 8.0MHz    | 25Ω        | 2    | \$.39 | \$.35 | \$.29 |
| 324727   | TZTT-8.00MT  | 8.0MHz    | 25Ω        | 3    | \$.39 | \$.35 | \$.29 |
| 324566   | TZTA-12.00MT | 12.0MHz   | 25Ω        | 2    | \$.39 | \$.35 | \$.29 |
| 324672   | TZTT-20.00MT | 20.0MHz   | 55Ω        | 3    | \$.49 | \$.45 | \$.39 |

## Fuses

### 5mm x 20mm Mini Slow Blow GMD Fuses (250V)

\*Web Code: RAM

| Part No. | *Mfr. | Cross Ref. | Amps  | 1     | 10    | 100   |
|----------|-------|------------|-------|-------|-------|-------|
| 197502   | JVP   | GMD-500mA  | 0.5A  | \$.39 | \$.35 | \$.29 |
| 103827   | JVP   | GMC-1A     | 1A    | \$.35 | \$.29 | \$.25 |
| 197465   | JVP   | GMD-1A     | 1A    | \$.39 | \$.35 | \$.29 |
| 197472   | JVP   | GMD-2      | 2A    | \$.39 | \$.35 | \$.29 |
| 197482   | JVP   | GMD-3.15   | 3.15A | \$.39 | \$.35 | \$.29 |
| 197500   | JVP   | GMD-5A     | 5A    | \$.39 | \$.35 | \$.29 |

\* Medium time delay type

### 1 1/4" x 1/4" Standard Slow Blow MDL/3AG Fuses (250V)

\*Web Code: EAD

| Part No. | *Mfr. | Cross Ref.  | Amps  | 1      | 10     | 100    |
|----------|-------|-------------|-------|--------|--------|--------|
| 653263   | LTL   | 313.010.HXP | .01A  | \$2.29 | \$2.09 | \$1.99 |
| 653301   | LTL   | 313.100.HXP | .10A  | 1.39   | 1.35   | 1.29   |
| 653335   | LTL   | 313.187.HXP | .187A | 1.39   | 1.35   | 1.29   |
| 25655    | JVP   | MDL-1/4     | .25A  | \$.59  | \$.55  | \$.49  |
| 653386   | LTL   | 313.400.HXP | .4A   | 1.29   | 1.19   | 1.09   |
| 25689    | JVP   | MDL-1/2     | .5A   | \$.59  | \$.55  | \$.49  |
| 653423   | LTL   | 313.750.HXP | .75A  | \$.89  | \$.85  | \$.79  |
| 25639    | JVP   | MDL-1       | 1A    | \$.59  | \$.55  | \$.49  |
| 25646    | JVP   | MDL-2       | 2A    | \$.59  | \$.55  | \$.49  |
| 69535    | JVP   | MDL-3       | 3A    | \$.49  | \$.45  | \$.39  |
| 653511   | LTL   | 313003.HXP  | 3A    | \$.55  | \$.49  | \$.45  |
| 25672    | JVP   | MDL-5       | 5A    | \$.59  | \$.55  | \$.49  |
| 69570    | JVP   | MDL-10      | 10A   | \$.59  | \$.55  | \$.49  |
| 653600   | LTL   | 313.012.HXP | 12A   | 1.39   | 1.35   | 1.29   |

• Blue Part No. = Limited Quantity Available

### 1 1/4" x 1/4" Ceramic Fast Acting 3AB Fuses (250V)

\*Web Code: ABF

• Blue P/N = Limited Quantity Available

| Part No. | *Mfr. | Cross Ref.  | Amps | 1     | 10    | 100   |
|----------|-------|-------------|------|-------|-------|-------|
| 656851   | LTL   | 314.750.HXP | .75  | \$.79 | \$.69 | \$.59 |
| 656860   | LTL   | 314001.HXP  | 1    | \$.79 | \$.69 | \$.59 |
| 656940   | LTL   | 314008.HXP  | 8    | \$.89 | \$.79 | \$.69 |
| 656966   | LTL   | 314012.HXP  | 12   | \$.69 | \$.59 | \$.49 |

### 5mm x 20mm Fast Acting Fuse Kit

- Glass cartridge, silver-end caps
- Voltage rating: 250VAC
- IEC127/BS4265/CEE4 spec.
- 100 pieces: 10 ea. of 0.1A, 0.2A, 0.5A, 1A, 1.6A, 2A, 2.5A, 3A, 4A and 5A

| Part No. | Mfr. Part No. | 1       | 10      | 25      |
|----------|---------------|---------|---------|---------|
| 645343   | K/FF          | \$15.95 | \$14.95 | \$13.95 |

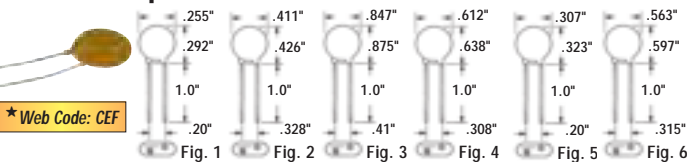
## Circuit Breakers

- Quick connect style terminals
- Actuator: black plastic button
- Mounting hole: 0.450"
- Included hardware: nut, knurled nut, ID plate

\*Web Code: LCF

| Part No. | Mfr. P/N | Rating (A @ VAC) | 1      | 10     | 100    | 500    |
|----------|----------|------------------|--------|--------|--------|--------|
| 621376   | 35-2105  | 5 @ 125/250      | \$3.95 | \$3.69 | \$3.29 | \$2.95 |
| 621413   | 35-2110  | 10 @ 125/250     | 3.95   | 3.69   | 3.29   | 2.95   |
| 621430   | 35-2115  | 15 @ 125/250     | 3.95   | 3.69   | 3.29   | 2.95   |
| 621448   | 35-2120  | 20 @ 125/250     | 3.95   | 3.69   | 3.29   | 2.95   |

## LA & ZA Equivalent Series Radial Leaded Varistors



\*Web Code: CEF

\* Order in multiples of 10

| Part No. | *Mfr. | Product No. | Continuous Voltage |                    | Transient Energy Joules | Max. Clamping Voltage |                    | Fig. | Pricing |       |       |
|----------|-------|-------------|--------------------|--------------------|-------------------------|-----------------------|--------------------|------|---------|-------|-------|
|          |       |             | V <sub>M(AC)</sub> | V <sub>M(DC)</sub> |                         | V <sub>C</sub>        | I <sub>PK(A)</sub> |      | 1       | 10    | 100   |
| 666793   | JVP   | V222A1      | 7                  | 14                 | 22                      | 0.9                   | 43                 | 1    | \$.19   | \$.15 | \$.15 |
| 667382   | JVP   | V182A1      | 11                 | 18                 | 0.8                     | 36                    | 2.5                | 1    | \$.19   | \$.15 | \$.15 |
| 666785   | JVP   | V222A05     | 14                 | 22                 | 0.4                     | 80                    | 1                  | 2    | \$.19   | \$.15 | \$.15 |
| 666822   | JVP   | V242A50     | 14                 | 22                 | 13                      | 43                    | 20                 | 3    | \$.19   | \$.15 | \$.15 |
| 666831   | JVP   | V272A05     | 17                 | 27                 | 0.5                     | 60                    | 1                  | 2    | \$.19   | \$.15 | \$.15 |
| 666777   | JVP   | V182A40     | 20                 | 11                 | 18                      | 10                    | 36                 | 3    | \$.19   | \$.15 | \$.15 |
| 666881   | JVP   | V562A8      | 35                 | 56                 | 10                      | 110                   | 10                 | 4    | \$.19   | \$.15 | \$.15 |
| 666890   | JVP   | V682A2-VP   | 40                 | 68                 | 2.5                     | 135                   | 2.5                | 1    | \$.19   | \$.15 | \$.15 |
| 666929   | JVP   | V822A4      | 50                 | 82                 | 8                       | 135                   | 25                 | 5    | \$.19   | \$.15 | \$.15 |
| 666953   | JVP   | V1502A20    | 95                 | 150                | 50                      | 250                   | 100                | 3    | \$.19   | \$.15 | \$.15 |
| 666988   | JVP   | V1802A10    | 115                | 180                | 30                      | 300                   | 50                 | 4    | \$.19   | \$.15 | \$.15 |
| 667008   | JVP   | V3302A05    | 210                | 330                | 6.5                     | 580                   | 5                  | 2    | \$.19   | \$.15 | \$.15 |

## LA Series

| Part No. | *Mfr. | Product No. | 130 | 175 | 38  | 340  | 50  | 6 | 1     | 10    | 100   |
|----------|-------|-------------|-----|-----|-----|------|-----|---|-------|-------|-------|
| 34446    | ♦     | V130LA10A   | 130 | 175 | 38  | 340  | 50  | 6 | \$.39 | \$.35 | \$.29 |
| 34462    | ♦     | V130LA20A   | 130 | 175 | 70  | 340  | 100 | 3 | \$.59 | \$.55 | \$.49 |
| 1762883  | LTL   | V130LA20AP  | 130 | 175 | 70  | 340  | 100 | 3 | \$.49 | \$.45 | \$.39 |
| 667067   | JVP   | V140LA5     | 130 | 200 | 70  | 340  | 50  | 5 | \$.39 | \$.35 | \$.29 |
| 667059   | JVP   | V130LA20B   | 130 | 200 | 140 | 340  | 100 | 3 | \$.59 | \$.55 | \$.49 |
| 667121   | JVP   | V150LA20A   | 150 | 240 | 170 | 395  | 100 | 3 | \$.39 | \$.35 | \$.29 |
| 34471    | ♦     | V250LA20    | 250 | 330 | 72  | 650  | 50  | 6 | \$.39 | \$.35 | \$.29 |
| 667219   | JVP   | V420LA40B   | 420 | 680 | 23  | 1120 | 100 | 3 | \$.49 | \$.45 | \$.39 |
| 667227   | JVP   | V480LA40A   | 485 | 780 | 148 | 1290 | 50  | 6 | \$.39 | \$.35 | \$.29 |
| 667235   | JVP   | V480LA80B   | 485 | 780 | 265 | 1290 | 100 | 3 | \$.49 | \$.45 | \$.39 |

\* JVP = Jameco ValuePro | LTL = Littelfuse | ♦ = Manufacturer Varies

\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

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## Includes the Most Popular Components with Extra Spaces for Your Customized Expansion

- Each kit includes drawer component cabinet (319600) and 20 plastic dividers (319611)
- Each kit has the most popular component in its category
- Each kit is designed for your specific expansion
- Includes identification labels for each drawer, with reorder numbers to replenish stock and blank adhesive labels for empty drawers
- Free standing or wall mountable cabinet • Weight of kits: 4.6 to 6.4 lbs.
- Cabinet size: 6.0"L x 15.0"W x 7.9"H • Drawer size: 5.5"L x 2.7"W x 1.5"H
- 20 clear plastic drawers (319601) and 20 dividers (319611) • Cabinet: ABS-black (P/N 319600 see pg 173)



85059 (Switch Kit)

81841 (Capacitor Kit)

### 7400 Series IC Kit

SAVE \$202

Includes 350 pcs. (30 Types) 7400 (TTL) Integrated Circuits

| 10 each | 10 each | 10 each | 10 each | 10 each | 20 each |
|---------|---------|---------|---------|---------|---------|
| 7402    | 7416    | 7438    | 74121   | 74157   | 7400    |
| 7405    | 7417    | 7447    | 74123   | 74160   | 7404    |
| 7408    | 7420    | 7470    | 74132   | 74174   | 7406    |
| 7410    | 7430    | 7485    | 74151   | 74175   | 7407    |
| 7414    | 7432    | 74107   | 74153   | 74279   | 7474    |

| Part No. | Description                       | 1        | 5        |
|----------|-----------------------------------|----------|----------|
| 84953    | 350 pcs. 7400 series IC kit ..... | \$199.95 | \$179.95 |

### 74LS00 Series IC Kit

SAVE \$76

Includes 420 pcs. (35 Types) 74LS00 (TTL) Integrated Circuits

| 10 each | 10 each | 10 each | 10 each | 20 each |
|---------|---------|---------|---------|---------|
| 74LS05  | 74LS73  | 74LS125 | 74LS193 | 74LS00  |
| 74LS10  | 74LS75  | 74LS139 | 74LS240 | 74LS02  |
| 74LS11  | 74LS85  | 74LS151 | 74LS244 | 74LS04  |
| 74LS14  | 74LS86  | 74LS155 | 74LS245 | 74LS08  |
| 74LS20  | 74LS90  | 74LS157 | 74LS273 | 74LS32  |
| 74LS30  | 74LS93  | 74LS174 | 74LS373 | 74LS74  |
| 74LS47  | 74LS123 | 74LS175 | 74LS374 | 74LS138 |

|        |                                   |          |          |
|--------|-----------------------------------|----------|----------|
| 84961  | 420 pcs. 74LS series IC kit ..... | \$149.95 | \$129.95 |
| 130391 | Refill for 84961 (420 pcs.) ..... | 134.95   | 119.95   |

### CD4000 Series (CMOS) IC Kit

Includes 300 pcs. (25 Types) CD 4000 Series Integrated Circuits

| 10 each | 10 each | 10 each | 10 each | 20 each |
|---------|---------|---------|---------|---------|
| CD4015  | CD4024  | CD4051  | CD4093  | CD4001  |
| CD4016  | CD4027  | CD4069  | CD4511  | CD4011  |
| CD4017  | CD4040  | CD4070  | CD4538  | CD4013  |
| CD4020  | CD4046  | CD4071  | CD4543  | CD4049  |
| CD4023  | CD4050  | CD4081  | CD4584  | CD4066  |

|        |                                     |         |         |
|--------|-------------------------------------|---------|---------|
| 84970  | 300 pcs. CD 4000 series IC kit..... | \$79.95 | \$69.95 |
| 130403 | Refill for 84970 (300 pcs.) .....   | 64.95   | 59.95   |

### Linear IC Kit

Includes 480 pcs. (40 Types)

SAVE \$65

| 10 each   | 10 each  | 10 each   | 10 each  | 20 each |
|-----------|----------|-----------|----------|---------|
| TL72CP    | LM337T   | LF412CN   | ULN2803A | LM317T  |
| TL74CN    | LF353N   | LMC555CN  | NE5532N  | LM324N  |
| TL082CP   | LF356N   | LM556N    | 7808T    | LM339N  |
| TL084CN   | LM358N   | LM723CN   | 78L12CZ  | LM741CN |
| MAX232CPE | LM386N-1 | LM1458N   | 7815T    | LM555CN |
| LM301N    | LM386N-3 | DS1488N   | 7905T    | 7805T   |
| LM308N    | LM393N   | DS1489N   | 7912CT   | 78L05CZ |
| LM311N    | LF411CN  | ULN2003AN | 7915CT   | 7812T   |

|        |                                       |          |          |
|--------|---------------------------------------|----------|----------|
| 84988  | 480 pcs. (40 types) Linear IC kit ... | \$189.95 | \$169.95 |
| 130411 | Refill for 84988 (480 pcs.) .....     | 174.95   | 159.95   |

### Transistor Kit

Includes 560 pcs. (20 Types)

| 10 each | 10 each | 10 each  | 10 each | 100 each |
|---------|---------|----------|---------|----------|
| 2N2222A | 2N4401  | MJE3055T | TIP31A  | 2N3904   |
| 2N2907A | 2N4403  | MPF102   | TIP32A  | 2N3906   |
| 2N3053  | 2N5951  | MPSA06   | TIP102  | PN2222   |
| 2N3055  | 2N7000  | MPSA13   | TIP120  | PN2907   |

|        |                                   |         |         |
|--------|-----------------------------------|---------|---------|
| 82595  | 560 pcs. Transistor kit .....     | \$69.95 | \$59.95 |
| 130374 | Refill for 82595 (560 pcs.) ..... | 54.95   | 49.95   |

### Diode and Rectifier Kit

Includes 420 pcs. (15 Types) Zener Switching & Silicon Rectifiers

| 10 each | 10 each | 10 each | 10 each | 100 each |
|---------|---------|---------|---------|----------|
| 1N270   | 1N4007  | 1N4735A | 1N5408  | 1N914    |
| 1N751A  | 1N4150  | 1N4742A | C106B1  | 1N4004   |
| 1N4001  | 1N4733A | 1N5404  | KBP04M  | 1N4148   |

|        |                                   |         |         |
|--------|-----------------------------------|---------|---------|
| 82587  | 420 pcs. Diode kit .....          | \$39.95 | \$34.95 |
| 130366 | Refill for 82587 (420 pcs.) ..... | 29.95   | 26.95   |

### 1/8-Watt Carbon Film Resistor Kit

Includes 540 pcs. (30 Values) 1/8-Watt 5% Resistors

| 10 each | 10 each | 10 each | 10 each | 10 each | 50 each | 50 each |
|---------|---------|---------|---------|---------|---------|---------|
| 10Ω     | 390Ω    | 2.2kΩ   | 6.8kΩ   | 47kΩ    | 100Ω    | 4.7kΩ   |
| 47Ω     | 470Ω    | 2.7kΩ   | 15kΩ    | 470kΩ   | 220Ω    | 10kΩ    |
| 150Ω    | 680Ω    | 3.3kΩ   | 22kΩ    | 1MΩ     | 1kΩ     | 100kΩ   |
| 270Ω    | 1.5kΩ   | 5.1kΩ   | 27kΩ    | 10MΩ    | —       | —       |
| 330Ω    | 2kΩ     | 5.6kΩ   | 33kΩ    | —       | —       | —       |

| Part No. | Description                         | 1       | 5       |
|----------|-------------------------------------|---------|---------|
| 108329   | 540 pcs. 1/8-watt Resistor kit .... | \$25.95 | \$22.95 |
| 108303   | Refill for 108329 (540 pcs.) .....  | 10.95   | 8.95    |

### 1/4-Watt Carbon Film Resistor Kit

Includes 540 pcs. (30 Values) 1/4-Watt 5% Resistors

| 10 each | 10 each | 10 each | 10 each | 10 each | 50 each | 50 each |
|---------|---------|---------|---------|---------|---------|---------|
| 10Ω     | 390Ω    | 2.2kΩ   | 5.6kΩ   | 47kΩ    | 100Ω    | 4.7kΩ   |
| 47Ω     | 470Ω    | 2.2kΩ   | 15kΩ    | 470kΩ   | 220Ω    | 10kΩ    |
| 150Ω    | 680Ω    | 2.7kΩ   | 20kΩ    | 1MΩ     | 1kΩ     | 100kΩ   |
| 270Ω    | 1.2kΩ   | 3.3kΩ   | 22kΩ    | 10MΩ    | —       | —       |
| 330Ω    | 1.5kΩ   | 5.1kΩ   | 33kΩ    | —       | —       | —       |

|        |                                     |         |         |
|--------|-------------------------------------|---------|---------|
| 81832  | 540 pcs. 1/4-watt Resistor kit .... | \$27.95 | \$25.95 |
| 103166 | Refill for 81832 (540 pcs.) .....   | 12.95   | 10.95   |

### 1/2-Watt Carbon Film Resistor Kit

Includes 540 pcs. (30 Values) 1/2-Watt 5% Resistors

| 10 each | 10 each | 10 each | 10 each | 10 each | 50 each | 50 each |
|---------|---------|---------|---------|---------|---------|---------|
| 10Ω     | 390Ω    | 2.2kΩ   | 6.8kΩ   | 47kΩ    | 100Ω    | 4.7kΩ   |
| 47Ω     | 470Ω    | 2.7kΩ   | 15kΩ    | 470kΩ   | 220Ω    | 10kΩ    |
| 150Ω    | 680Ω    | 3.3kΩ   | 22kΩ    | 1MΩ     | 1kΩ     | 100kΩ   |
| 270Ω    | 1.5kΩ   | 5.1kΩ   | 27kΩ    | 10MΩ    | —       | —       |
| 330Ω    | 2kΩ     | 5.6kΩ   | 33kΩ    | —       | —       | —       |

|        |                                     |         |         |
|--------|-------------------------------------|---------|---------|
| 107879 | 540 pcs. 1/2-watt Resistor kit .... | \$29.95 | \$26.95 |
| 107853 | Refill for 107879 (540 pcs.) .....  | 15.95   | 14.25   |

### 1/2-Watt Single Turn Cermet Pot Kit

Includes 100 pcs. (8 Types)

| 10 each | 10 each | 10 each | 10 each  | 10 each  |
|---------|---------|---------|----------|----------|
| 63P500Ω | 63P2kΩ  | 63P10kΩ | 63P50kΩ  | 63P500kΩ |
| 63P1kΩ  | 63P5kΩ  | 63P20kΩ | 63P100kΩ | 63P1MΩ   |

|       |                                    |         |         |
|-------|------------------------------------|---------|---------|
| 85032 | 100 pcs. single turn Pot kit ..... | \$74.95 | \$64.95 |
|-------|------------------------------------|---------|---------|

### 3/4-Watt 15 Turn Cermet Pot Kit

Includes 100 pcs. (10 Values) 3/4-Watt Linear Taper Potentiometer

| 10 each | 10 each | 10 each | 10 each  | 10 each  |
|---------|---------|---------|----------|----------|
| 43P500Ω | 43P2kΩ  | 43P10kΩ | 43P50kΩ  | 43P500kΩ |
| 43P1kΩ  | 43P5kΩ  | 43P20kΩ | 43P100kΩ | 43P1MΩ   |

|       |                                |         |         |
|-------|--------------------------------|---------|---------|
| 85041 | 100 pcs. 15 turn Pot kit ..... | \$84.95 | \$74.95 |
|-------|--------------------------------|---------|---------|

### LEDs & Mounting Hardware Kit

Includes 560 pcs. (20 Types) LEDs and Mounting Hardware

SAVE \$14

| 10 each | 10 each | 10 each | 10 each | 100 each |
|---------|---------|---------|---------|----------|
| 11359   | 34657   | 34761   | 114673  | 23077    |
| 11797   | 34673   | 104248  | 114681  | 95513    |
| 14277   | 34690   | 104256  | 136493  | 202471   |
| 34606   | 34711   | 104264  | 333569  | 2006730  |

|       |                                  |         |         |
|-------|----------------------------------|---------|---------|
| 84996 | 560 pcs. LED & Hardware kit .... | \$69.95 | \$59.95 |
|-------|----------------------------------|---------|---------|

### Switch Kit

SAVE \$63

Includes 150 pcs. (15 Types) Pushbutton, DIP & Toggle Switches

| 10 each | 10 each | 10 each | 10 each | 10 each |
|---------|---------|---------|---------|---------|
| 21910   | 21979   | 26358   | 26649   | 109171  |
| 21936   | 26315   | 26367   | 38818   | 139012  |
| 21952   | 26332   | 26623   | 76523   | 153252  |

|       |                           |         |         |
|-------|---------------------------|---------|---------|
| 85059 | 150 pcs. Switch kit ..... | \$99.95 | \$89.95 |
|-------|---------------------------|---------|---------|

### Spacers & Electronic Hardware Kit

Includes 2700 pcs. (27 Types) Spacer, Hex Nuts Flat, Tooth & Lock Washers and Slotted PH Screws

| 100 each | 100 each | 100 each | 100 each       | 100 each   | 100 each        |
|----------|----------|----------|----------------|------------|-----------------|
| Spacers  | Hex Nuts | Flat     | Internal Tooth | Split Lock | PH Machine      |
| —        | 2-56     | #2       | #2             | #2         | 2-56 x 1/4, 1/2 |
| 4-40     | 4-40     | #4       | #4             | #4         | 4-40 x 1/4, 1/2 |
| 6-32     | 6-32     | #6       | #6             | #6         | 6-32 x 1/4, 1/2 |
| 8-32     | 8-32     | #8       | #8             | #8         | 8-32 x 1/4, 1/2 |

| Part No. | Description                             | 1       | 5       |
|----------|---|---------|---------|
| 108433   | 2700 pcs. Electronic Hardware kit ..... | \$99.95 | \$89.95 |

### Monolithic Ceramic Capacitor Kit

Includes 280 pcs. (10 Types) 50V ±20% Monolithic Ceramic Caps.

| 10 each | 10 each | 10 each | 10 each | 100 each |
|---------|---------|---------|---------|----------|
| 22pF    | .001μF  | .047μF  | .22μF   | .01μF    |
| 100pF   | .0022μF | .47μF   | 1μF     | .1μF     |

|        |                                    |         |         |
|--------|------------------------------------|---------|---------|
| 171475 | 280 pcs. Monolithic Cap. kit ..... | \$36.95 | \$32.95 |
| 171483 | Refill for 171475 (280 pcs.) ..... | 24.95   | 21.95   |

### Radial Electrolytic Capacitor Kit

Includes 240 pcs. (15 Values) Radial Electrolytic Capacitors

| 10 each     | 10 each      | 20 each    | 20 each     | 20 each     |
|-------------|--------------|------------|-------------|-------------|
| 100μF @ 50V | 1000μF @ 16V | 1μF @ 50V  | 3.3μF @ 50V | 22μF @ 50V  |
| 220μF @ 25V | 2200μF @ 25V | 1μF @ 100V | 4.7μF @ 50V | 47μF @ 50V  |
| 470μF @ 25V | 3300μF @ 25V | 2μF @ 50V  | 10μF @ 50V  | 100μF @ 25V |

|        |                                     |         |         |
|--------|-------------------------------------|---------|---------|
| 81867  | 240 pcs. Radial Capacitor kit ..... | \$39.95 | \$34.95 |
| 130331 | for 81867 (240 pcs.) .....          | 29.95   | 24.95   |

### Axial Capacitor Kit

SAVE \$15

Includes 140 pcs. (10 Values) ±20% Axial Electrolytic Capacitors

| 10 each     | 10 each     | 10 each      | 20 each     | 20 each     |
|-------------|-------------|--------------|-------------|-------------|
| 47μF @ 50V  | 220μF @ 50V | 1000μF @ 25V | 1μF @ 50V   | 4.7μF @ 50V |
| 100μF @ 50V | 470μF @ 50V | 2200μF @ 16V | 2.2μF @ 50V | 10μF @ 50V  |

|        |                                     |         |         |
|--------|-------------------------------------|---------|---------|
| 81875  | 240 pcs. Radial Capacitor kit ..... | \$39.95 | \$34.95 |
| 130340 | Refill for 81875 (140 pcs.) .....   | 26.95   | 23.95   |

### Ceramic Disc Capacitor Kit

SAVE \$16

Includes 520 pcs. (10 Values) 50V Ceramic Disc Capacitors

| 20 each | 20 each | 20 each | 100 each | 100 each |
|---------|---------|---------|----------|----------|
| 10pF    | 47pF    | 470pF   | .022μF   | .01μF    |
| 22pF    | 100pF   | .001μF  | .047μF   | .1μF     |

|        |                                     |         |         |
|--------|-------------------------------------|---------|---------|
| 81859  | 520 pcs. Ceramic Capacitor kit .... | \$39.95 | \$34.95 |
| 130232 | Refill for 81859 (520 pcs.) .....   | 26.95   | 23.95   |

### Mylar Capacitor Kit

SAVE \$20

Includes 280 pcs. (10 Values) 100V ±10% Mylar Capacitors

| 10 each | 10 each | 10 each | 10 each | 100 each |
|---------|---------|---------|---------|----------|
| .001μF  | .022μF  | .047μF  | .47μF   | .01μF    |
| .0068μF | .033μF  | .22μF   | 1μF     | .1μF     |

|        |                                    |         |         |
|--------|------------------------------------|---------|---------|
| 81883  | 280 pcs. Mylar Capacitor kit ..... | \$39.95 | \$34.95 |
| 130358 | Refill for 81883 .....             | 29.95   | 24.95   |

### Dipped Tantalum Capacitor Kit

Includes 150 pcs. (15 Values) ±20% Dipped Tantalum Capacitors

| 10 each     | 10 each     | 10 each     | 10 each    | 10 each    |
|-------------|-------------|-------------|------------|------------|
| .1μF @ 35V  | 1μF @ 25V   | 3.3μF @ 35V | 10μF @ 16V | 22μF @ 16V |
| 22μF @ 35V  | 1μF @ 16V   | 4.7μF @ 35V | 10μF @ 35V | 33μF @ 25V |
| .47μF @ 25V | 2.2μF @ 16V | 6.8μF @ 35V | 15μF @ 25V | 47μF @ 25V |

|        |                                       |         |         |
|--------|---------------------------------------|---------|---------|
| 81841  | 150 pcs. Tantalum Capacitor kit ..... | \$79.95 | \$69.95 |
| 130260 | Refill for 81841 (150 pcs.) .....     | 64.95   | 54.95   |





135394 - Capacitors



135271 - LEDs



169578 - Photocells



18294 - Toy Motors



149649 - Fans



55968 - Spacers



319600 - Cabinet

• Opened grab bags are not returnable • Use our 20-drawer cabinet w/ labels to store your components, P/N 319600

Shaded in brown on this page you will find Jameco's nine (9) most popular component Grab Bags. They are all individually bagged, and are combined to make up the Schwab's School Selection (P/N 163213) referenced towards the bottom of the page.

## Capacitor Assortments

| Part No. | Product No. | Description  | Wt. (lbs.) | 1      | 10     |
|----------|-------------|--|------------|--------|--------|
| 17857    | GB100       | 200 assorted ceramic disc capacitors                                   | 0.2        | \$6.95 | \$5.95 |
| 135335   | GB100LB     | 900 assorted ceramic disc capacitors                                   | 1.0        | 14.95  | 12.95  |
| 17881    | GB101       | 100 assorted mylar capacitors  | 0.3        | 5.95   | 4.95   |
| 135458   | GB101LB     | 400 assorted mylar capacitors  | 1.0        | 14.95  | 12.95  |
| 17911    | GB102       | 100 assorted electrolytic capacitors radial, axial, snap               | 0.5        | 6.95   | 5.95   |
| 135394   | GB102LB     | 300 assorted electrolytic capacitors radial, axial, snap (photo above) | 1.0        | 12.95  | 10.95  |
| 17945    | GB103       | 100 assorted tantalum capacitors (dipped epoxy and solid tubular)      | 0.1        | 12.95  | 10.95  |

## Inductors and Chokes

| Part No. | Product No. | Description                           | Wt. (lbs.) | 1      | 10     |
|----------|-------------|---------------------------------------|------------|--------|--------|
| 2081342  | GB200       | 100 assorted axial chokes & inductors | 2.0        | \$9.95 | \$8.95 |

## Resistor and Resistor Network Assortments

| Part No. | Product No. | Description   | Wt. (lbs.) | 1      | 10     |
|----------|-------------|---|------------|--------|--------|
| 134130   | GB115       | 200 asst. 1/8, 1/4, 1/2 resistors (2.5&10%)                                   | 0.8        | \$5.95 | \$4.95 |
| 18104    | GB116       | 200 assorted 1/4W resistors (5&10%)   | 0.1        | 4.95   | 3.95   |
| 135351   | GB116LB     | 2000 assorted 1/4W resistors  | 0.8        | 14.95  | 12.95  |
| 18139    | GB117       | 200 assorted 1/2W resistors (5&10%)   | 0.2        | 6.95   | 5.95   |
| 18163    | GB118       | 200 asst. 1/8W resistor networks (2&8.5%) (8 & 10-pin SIP packages, 22Ω-150k) | 0.3        | 4.95   | 4.49   |

## Trimmers, Single and Multi-Turn Potentiometers

| Part No. | Product No. | Description  | Wt. (lbs.) | 1      | 10     |
|----------|-------------|--|------------|--------|--------|
| 18075    | GB113       | 100 assorted 1/10W to 1/8W trimmer pots (100Ω to 2MΩ values)                 | 0.1        | \$6.95 | \$5.95 |
| 18278    | GB174       | 100 assorted 1/4W, 1/2W & 3/4W multi-turn pots (100Ω to 5MΩ assorted values) | 0.2        | 9.95   | 8.95   |
| 135407   | GB174LB     | 300 assorted 1/4W, 1/2W & 3/4W multi-turn pots (100Ω to 5MΩ assorted values) | 1.0        | 19.95  | 17.95  |

## LEDs, 7-Segment Displays and Photocells

| Part No. | Product No. | Description   | Wt. (lbs.) | 1      | 10     | 25     |
|----------|-------------|---|------------|--------|--------|--------|
| 18041    | GB110       | 100 assorted sizes & colored LEDs (T1 & T1 1/2 round and rectangular) | 0.1        | \$7.95 | \$6.95 | \$5.95 |
| 18323    | GB186       | 500 assorted sizes #18041 LEDs  | 0.3        | 24.95  | 21.95  | 19.95  |
| 135271   | GB110LB     | 1900 assorted #18041 LEDs   | 1.0        | 59.95  | 54.95  | 49.95  |
| 18201    | GB162       | 50 assorted sizes of colored displays (7-segment LED, modules, stick) | 0.5        | 10.95  | 9.95   | 8.95   |
| 169578   | GB125       | 100 assorted values photocells  | 0.2        | 21.95  | 19.95  | 17.95  |

## Schwab's Electronic Component School Selection

Jameco's nine (9) most popular Grab Bags (highlighted on this page) are all individually bagged. North Dakota Engineer, Loren Schwab, recommended this selection of products as a standard item. He also recommended a 20-drawer component cabinet with labels (319600, see photo above) for storage.

Includes: Ceramic and electrolytic capacitors, diodes, transistors, potentiometers, LEDs, 1/4W resistors, switches, spacers and standoffs.

\$79.55  
Value



| Part No. | Product No. | Description                 | Wt. (lbs.) | 1       | 10      | 50      |
|----------|-------------|-----------------------------|------------|---------|---------|---------|
| 163213   | GB197       | Schwab's School Selection   | 2.2        | \$49.95 | \$44.95 | \$39.95 |
| 319600   | 6897CAB     | 20 drawer component cabinet | 3.5        | 16.95   | 15.49   | 13.95   |



149649 - Fans



55968 - Spacers



319600 - Cabinet

## Integrated Circuits, Sockets and Male Headers

| Part No. | Product No. | Description  | Wt. (lbs.) | 1      | 10     |
|----------|-------------|--|------------|--------|--------|
| 17996    | GB108       | 100 assorted TTL DIP & SMDs (74, 74ALS, 74HC, 74CT, 74F, 74LS, 74S)                    | 0.2        | \$9.95 | \$8.95 |
| 135280   | GB108LB     | 400 assorted TTL series DIP & SMDs (same as P/N 17996, above)                          | 1.0        | 24.95  | 22.49  |
| 18024    | GB109       | 100 asst. linear series (NSC, Motorola, TI) TO-3, 8 & 14-pin DIP, SOIC packages        | 0.1        | 12.95  | 11.49  |
| 145242   | GB109LB     | 300 assorted linear series (NSC, Motorola, TI) TO-3, 8 & 14-pin DIP, SOIC packages     | 0.5        | 29.95  | 26.95  |
| 105620   | GB120       | 100 assorted sockets (DIP, PGA, SIMM, SIP)   | 0.3        | 6.95   | 5.95   |
| 135386   | GB120LB     | 300 assorted sockets (DIP, PGA, SIMM, SIP)   | 1.0        | 14.95  | 12.95  |
| 2095138  | GB204       | 100 assorted .100 male headers (breakway) Straight, right angle, single and double row | 0.3        | 9.95   | 8.95   |

## Diodes, Transistors and Crystals/Oscillators

| Part No. | Product No. | Description                                     | Wt. (lbs.) | 1      | 10     | 25     |
|----------|-------------|---|------------|--------|--------|--------|
| 17961    | GB107       | 200 assorted diodes (zener, switching, silicon) | 0.1        | \$9.95 | \$8.95 | \$7.95 |
| 18171    | GB127       | 100 assorted transistors (NPN, PNP, power)      | 0.1        | 7.95   | 6.95   | 5.95   |
| 114446   | GB150       | 100 assorted crystals/oscillators               | 0.2        | 7.95   | 6.95   | 5.95   |

## Switches, Toy Motors, Gears and Fans

| Part No. | Product No. | Description   | Wt. (lbs.) | 1      | 10     |
|----------|-------------|---|------------|--------|--------|
| 18235    | GB165       | 50 assorted switches (toggle, pushbutton, rocker, slide)                          | 0.4        | \$8.95 | \$7.95 |
| 135378   | GB165LB     | 150 assorted #18235 switches  | 2.0        | 19.95  | 17.95  |
| 18294    | GB182       | 5 assorted toy DC motors (1.5-24V)  | 0.5        | 7.95   | 6.95   |
| 149649   | GB193       | 5 assorted AC&DC fans (photo above)   | 4.5        | 9.95   | 8.95   |
| 1943094  | GB198       | 30 assorted gears & shafts, plastic/nylon (20, 22, 23, 26, 30, 58, 63 teeth vary) | 0.3        | 12.95  | 10.95  |

## Spacer, Standoff and Terminal Assortments

| Part No. | Product No. | Description  | Wt. (lbs.) | 1       | 10      |
|----------|-------------|--|------------|---------|---------|
| 55968    | GB140       | 100 assorted 4-40, 6-32, 8-32 round/hex, alum/brass/nylon, spacers/standoffs | 0.3        | \$14.95 | \$12.95 |
| 135423   | GB140LB     | 300 assorted same as P/N 55968   | 1.0        | 29.95   | 26.95   |
| 2082118  | GB203       | 100 assorted solderless terminals spade, ring, faston, butt, crimp types     | 0.2        | 7.95    | 6.95    |

## Screw Hardware & Drill Bit Assortments

| Part No. | Product No. | Description  | Wt. (lbs.) | 1      | 10     | 25     |
|----------|-------------|--|------------|--------|--------|--------|
| 171571   | GB149       | 500 assorted types of screws, nuts, washers & lock washers   | 1.0        | \$6.95 | \$5.95 | \$4.95 |
| 171635   | GB149LB     | 1400 asst. same as P/N 171571                                | 3.2        | 15.95  | 14.95  | 13.95  |
| 2082038  | GB202       | 20 assorted drill bits 10 sizes: .021" (#75) thru .12" (#31) | 0.3        | 14.95  | 13.49  | 11.95  |

## Bumpers and Rubber Feet Assortment

| Part No. | Product No. | Description                                 | 1      | 10     |
|----------|-------------|---|--------|--------|
| 2081385  | GB201       | 100 assorted bumpers & adhesive rubber feet | \$8.95 | \$7.95 |

## Surprise Electronic Component Grab Bag

Axial and radial electrolytics, monolithic, dipped silver mica and mylar capacitors, ICs, connectors, sockets, headers, thermistors, LEDs, resistor networks, diodes, standoffs, transistors, oscillators/resonators, inductors, crystals, resistors, pots and switches (1000 pcs.)

Our Best  
Seller!



| Part No. | Product No. | Description                                | 1       | 10      |
|----------|-------------|--|---------|---------|
| 135263   | GB191LB     | 1000 assorted pieces electronic components | \$19.95 | \$17.95 |

\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

# Electrolytic Capacitors

3 LEVELS OF SAVINGS  
NAME BRANDS HOUSE BRANDS FACTORY OVERRUN

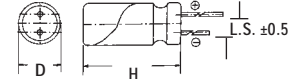
JAMECO ValuePro

## Aluminum Radial-Lead Polarized Electrolytic Capacitors (±20%) 85°C

\* Web Code: CCE



|                           |              |   |
|---------------------------|--------------|---|
| Leakage Current<br>(20°C) | After 1 min. | 0.03CV or 4 $\mu$ A, whichever is greater |
|                           | After 2 min. | 0.01CV or 3 $\mu$ A, whichever is greater |



† CROSS REFERENCES: Nichicon: LB/VX/USA/SR/SA/UVR; Elna: RC2/RE2; IC: RAR/RSS; Marcon: SEM/SSM; Rubycon: MS7/TWSS; Sprague: 501D/513D; UCC: SME/SRE/SRA/SG; Panasonic: KA/KS/SU

\* Order in multiples of 10

\* Order in multiples of 10

| Part No. | Cross Ref. No. † | Mfr. | Value (μF) | Volt | Size (mm)*<br>D x H x L.S. | Pricing |        |        |        |
|----------|------------------|------|------------|------|----------------------------|---------|--------|--------|--------|
|          |                  |      |            |      |                            | 1       | 10     | 100    | 500    |
| 609043   | UVR2A0R1MDD      | JVP  | 0.1        | 100  | 5 x 11 x 2                 | *       | \$ .09 | \$ .07 | \$ .05 |
| 330465   | RA0.47/50        | JVP  | 0.47       | 50   | 5 x 11 x 2                 | *       | .05    | .04    | .03    |
| 94326    | 7R1/50           | ♦    | 1          | 50   | 4 x 7 x 2.1                | *       | .06    | .05    | .04    |
| 330431   | RA1/25           | JVP  | 1          | 25   | 5 x 11 x 2                 | *       | .06    | .05    | .04    |
| 29831    | R1/50            | ♦    | 1          | 50   | 5 x 11 x 2                 | *       | .06    | .05    | .04    |
| 29833    | R1/50            | JVP  | 1          | 50   | 5 x 11 x 2                 | *       | .08    | .06    | .05    |
| 94161    | 5R1/50           | JVP  | 1          | 50   | 4 x 5 x 1.5                | *       | .13    | .10    | .08    |
| 330941   | RN1/50           | JVP  | 1          | 50   | 5 x 11 x 2                 | *       | .15    | .12    | .09    |
| 115423   | R1/63            | ♦    | 1          | 63   | 5 x 11 x 2                 | *       | .04    | .03    | .02    |
| 1946324  | R2.2/6.3TR       | ♦    | 2.2        | 6.3  | 4 x 8 x 4.5                | *       | .05    | .02    | .01    |
| 93729    | R2.2/50          | ♦    | 2.2        | 50   | 5 x 11 x 2                 | *       | .07    | .05    | .04    |
| 93731    | R2.2/50          | JVP  | 2.2        | 50   | 5 x 11 x 2                 | *       | .08    | .06    | .05    |
| 31000    | R4.7/50          | ♦    | 4.7        | 50   | 5 x 11 x 2                 | *       | .06    | .05    | .04    |
| 31002    | R4.7/50          | JVP  | 4.7        | 50   | 5 x 11 x 2                 | *       | .08    | .06    | .05    |
| 1946341  | R10/6.3ATR       | ♦    | 10         | 6.3  | 4 x 7 x 5                  | *       | .04    | .03    | .02    |
| 1946332  | R10/6.3TR        | ♦    | 10         | 6.3  | 3 x 6 x 4                  | *       | .04    | .03    | .02    |
| 198839   | R10J/16          | JVP  | 10         | 16   | 5 x 11 x 2                 | *       | .08    | .06    | .045   |
| 1946367  | R10/25ATR        | ♦    | 10         | 25   | 5 x 11 x 5                 | *       | .05    | .04    | .03    |
| 1946359  | R10/25TR         | ♦    | 10         | 25   | 4 x 7 x 5                  | *       | .05    | .04    | .03    |
| 94212    | 5R10/25          | JVP  | 10         | 25   | 4 x 5 x 1.5                | *       | .10    | .08    | .06    |
| 330916   | RN10/25          | JVP  | 10         | 25   | 5 x 11.5 x 1.5             | *       | .15    | .12    | .09    |
| 94221    | 5R10/35          | JVP  | 10         | 35   | 5 x 5 x 2                  | *       | .10    | .08    | .06    |
| 29891    | R10/50           | ♦    | 10         | 50   | 5 x 11 x 2                 | *       | .06    | .05    | .04    |
| 29893    | R10/50           | JVP  | 10         | 50   | 5 x 11 x 2                 | *       | .10    | .08    | .06    |
| 330482   | RA10/63          | JVP  | 10         | 63   | 5 x 11 x 2                 | *       | .10    | .08    | .06    |
| 330609   | RA10/250         | JVP  | 10         | 250  | 10 x 16 x 5                | .35     | .25    | .19    | .15    |
| 1946287  | R22/10TR         | ♦    | 22         | 10   | 5 x 11 x 5                 | *       | .05    | .02    | .01    |
| 1946295  | R22/16           | ♦    | 22         | 16   | 5 x 12 x 5                 | *       | .05    | .03    | .015   |
| 1946308  | R22/25TR         | ♦    | 22         | 25   | 5 x 11 x 5                 | *       | .05    | .03    | .015   |
| 198943   | EC2235H511       | JVP  | 22         | 35   | 5 x 11 x 2                 | *       | .05    | .03    | .02    |
| 1946316  | R22/50TR         | ♦    | 22         | 50   | 5 x 12 x 5                 | *       | .06    | .04    | .03    |
| 93739    | R22/50           | JVP  | 22         | 50   | 5 x 11 x 2                 | *       | .08    | .06    | .05    |
| 93747    | R33/50           | JVP  | 33         | 50   | 6.3 x 11 x 2.5             | *       | .11    | .09    | .07    |
| 608999   | UVR1J330MED      | JVP  | 33         | 63   | 6.3 x 11 x 2.5             | *       | .09    | .07    | .05    |
| 1946244  | R47/16TR         | ♦    | 47         | 16   | 5 x 12 x 5                 | *       | .05    | .03    | .02    |
| 198863   | R47J/16          | JVP  | 47         | 16   | 6.3 x 11 x 2.5             | *       | .08    | .06    | .05    |
| 1946252  | R47/35TR         | ♦    | 47         | 35   | 6 x 12 x 5                 | *       | .04    | .03    | .02    |
| 198952   | R47J/35          | JVP  | 47         | 35   | 5 x 11 x 2                 | *       | .10    | .08    | .06    |
| 31114    | R47/50           | ♦    | 47         | 50   | 6 x 11 x 2.5               | *       | .06    | .05    | .04    |
| 31116    | R47/50           | JVP  | 47         | 50   | 6.3 x 11 x 2.5             | *       | .11    | .09    | .07    |
| 330617   | RA47/250         | JVP  | 47         | 250  | 13 x 25 x 5                | .55     | .45    | .35    | .29    |
| 609289   | UVR2V470MHD      | JVP  | 47         | 350  | 16 x 35.5 x 7.5            | .75     | .55    | .45    | .35    |
| 330676   | RA47/450         | JVP  | 47         | 450  | 18 x 30 x 7.5              | 1.09    | .89    | .75    | .59    |
| 1946261  | R68/16TR         | ♦    | 68         | 16   | 5 x 11 x 5                 | *       | .04    | .03    | .02    |
| 207811   | R100/10          | ♦    | 100        | 10   | 5 x 11 x 2                 | *       | .05    | .03    | .02    |
| 94432    | 7R100/16         | JVP  | 100        | 16   | 6 x 7 x 2.5                | *       | .08    | .06    | .05    |
| 330422   | RA100/16         | JVP  | 100        | 16   | 5 x 11 x 2                 | *       | .10    | .08    | .06    |
| 94289    | 5R100/16         | JVP  | 100        | 16   | 6.5 x 5 x 2.5              | *       | .15    | .12    | .09    |
| 93761    | R100/25          | ♦    | 100        | 25   | 6 x 11 x 2.5               | *       | .08    | .06    | .05    |
| 198970   | R100J/35         | JVP  | 100        | 35   | 6.3 x 11 x 2.5             | *       | .10    | .08    | .06    |
| 29962    | R100/50          | ♦    | 100        | 50   | 8 x 11 x 3.5               | *       | .10    | .08    | .06    |
| 29964    | R100/50          | JVP  | 100        | 50   | 8 x 11.5 x 3.5             | *       | .13    | .10    | .08    |

Note: Above case sizes may have ± tolerances "TR" at the end of Cross Ref. numbers are Tape and Reel

| Part No. | Cross Ref. No. † | Mfr. | Value (μF) | Volt | Size (mm)*<br>D x H x L.S. | Pricing |        |        |        |
|----------|------------------|------|------------|------|----------------------------|---------|--------|--------|--------|
|          |                  |      |            |      |                            | 1       | 10     | 100    | 500    |
| 330529   | RA100/100        | JVP  | 100        | 100  | 10 x 17 x 5                | *       | \$ .19 | \$ .15 | \$ .13 |
| 330580   | RA100/160S       | JVP  | 100        | 160  | 16 x 25 x 7.5              | .65     | .49    | .39    | .29    |
| 330625   | RA100/250        | JVP  | 100        | 250  | 16 x 31.5 x 7.5            | 1.09    | .85    | .65    | .49    |
| 330684   | RA100/450        | JVP  | 100        | 450  | 22 x 42.5 x 10.5           | 2.49    | 2.25   | 1.95   | 1.69   |
| 135125   | 7R220/10         | JVP  | 220        | 10   | 6 x 7 x 2.5                | *       | .08    | .06    | .04    |
| 198872   | R220J/16         | JVP  | 220        | 16   | 6.3 x 11 x 2.5             | *       | .11    | .09    | .07    |
| 30496    | R220/25          | ♦    | 220        | 25   | 8 x 11 x 3.5               | *       | .10    | .08    | .06    |
| 30498    | R220/25          | JVP  | 220        | 25   | 8.5 x 11 x 3.5             | *       | .10    | .08    | .06    |
| 93772    | R220/35          | JVP  | 220        | 35   | 8 x 12 x 3.5               | *       | .15    | .12    | .09    |
| 93778    | R220/50          | ♦    | 220        | 50   | 10 x 12 x 5                | *       | .14    | .11    | .08    |
| 93780    | R220/50          | JVP  | 220        | 50   | 10 x 16 x 5                | *       | .19    | .15    | .12    |
| 609115   | UVR2C221MHD      | JVP  | 220        | 160  | 16 x 30 x 7.5              | .75     | .65    | .59    | .49    |
| 93796    | R330/25          | ♦    | 330        | 25   | 10 x 12 x 5.0              | *       | .12    | .09    | .07    |
| 198978   | R330J/35         | JVP  | 330        | 35   | 10 x 12.5 x 5              | *       | .19    | .15    | .12    |
| 330473   | RA330/50         | JVP  | 330        | 50   | 10 x 16 x 5                | .29     | .22    | .19    | .14    |
| 1946279  | R470/10TR        | ♦    | 470        | 10   | 6 x 11 x 5                 | *       | .06    | .05    | .04    |
| 93809    | R470/16          | ♦    | 470        | 16   | 8 x 11 x 3.5               | *       | .13    | .10    | .08    |
| 93811    | R470/16          | JVP  | 470        | 16   | 8 x 11.5 x 3.5             | .29     | .22    | .17    | .14    |
| 31181    | R470/25          | ♦    | 470        | 25   | 10 x 12 x 5                | *       | .19    | .15    | .12    |
| 31183    | R470/25          | JVP  | 470        | 25   | 10 x 12 x 3.5              | .35     | .25    | .19    | .15    |
| 93817    | R470/35          | ♦    | 470        | 35   | 10 x 16 x 5                | .29     | .22    | .17    | .14    |
| 93819    | R470/35          | JVP  | 470        | 35   | 10 x 16 x 5                | .39     | .32    | .25    | .19    |
| 93825    | R470/50          | ♦    | 470        | 50   | 12 x 20 x 5                | .35     | .25    | .19    | .15    |
| 93827    | R470/50          | JVP  | 470        | 50   | 10 x 20 x 5                | .39     | .32    | .25    | .19    |
| 158465   | R470B63+         | JVP  | 470        | 63   | 13 x 20 x 5                | .69     | .55    | .45    | .35    |
| 199102   | R470J/100        | JVP  | 470        | 100  | 16 x 25 x 7.5              | 1.15    | .89    | .69    | .55    |
| 609140   | UVR2C471MRD      | JVP  | 470        | 160  | 22 x 40 x 10               | 1.29    | 1.09   | .99    | .89    |
| 330456   | RA680/25S        | JVP  | 680        | 25   | 8 x 16 x 3.5               | 1.09    | .85    | .65    | .49    |
| 1945436  | R1000/6.3        | ♦    | 1000       | 6.3  | 10 x 13 x 5                | *       | .09    | .07    | .05    |
| 30015    | R1000/16         | ♦    | 1000       | 16   | 10 x 16 x 5                | .25     | .22    | .16    | .12    |
| 30017    | R1000/16         | JVP  | 1000       | 16   | 10 x 16 x 5                | .35     | .25    | .19    | .15    |
| 93833    | R1000/25         | ♦    | 1000       | 25   | 10 x 20 x 5                | .35     | .25    | .19    | .15    |
| 93835    | R1000/25         | JVP  | 1000       | 25   | 10 x 20 x 5                | .39     | .32    | .25    | .19    |
| 93841    | R1000/50         | ♦    | 1000       | 50   | 6.5 x 11.3 x 2.2           | .65     | .49    | .39    | .32    |
| 93843    | R1000/50         | JVP  | 1000       | 50   | 13 x 25 x 5                | .75     | .59    | .49    | .39    |
| 199111   | R1000J/100       | JVP  | 1000       | 100  | 18 x 41 x 7.5              | 1.75    | 1.49   | 1.25   | .99    |
| 30533    | R2200/25         | ♦    | 2200       | 25   | 12 x 25 x 5.0              | .65     | .49    | .39    | .29    |
| 30535    | R2200/25         | JVP  | 2200       | 25   | 13 x 21 x 5                | .69     | .55    | .45    | .35    |
| 198986   | R2200J/35        | JVP  | 2200       | 35   | 16 x 25 x 7.5              | .85     | .69    | .55    | .45    |
| 608956   | UVR1H222MHD      | JVP  | 2200       | 50   | 16 x 30 x 7.5              | 1.15    | .89    | .69    | .55    |
| 198989   | R3300J/16        | JVP  | 3300       | 16   | 13 x 21 x 5                | .65     | .49    | .39    | .29    |
| 30893    | R3300/25         | JVP  | 3300       | 25   | 13 x 29 x 5                | .85     | .69    | .55    | .45    |
| 198994   | R3300J/35        | JVP  | 3300       | 35   | 16 x 30 x 7.5              | 1.09    | .89    | .75    | .59    |
| 198901   | R4700J/16        | JVP  | 4700       | 16   | 16 x 25 x 7.5              | .85     | .69    | .55    | .45    |
| 93850    | R4700/25         | ♦    | 4700       | 25   | 16 x 31 x 7.5              | .85     | .69    | .55    | .45    |
| 93852    | R4700/25         | JVP  | 4700       | 25   | 16 x 31.5 x 7.5            | .95     | .79    | .59    | .49    |
| 199006   | R4700J/35        | JVP  | 4700       | 35   | 18 x 35 x 7.5              | 1.35    | 1.15   | .99    | .85    |
| 163301   | R4700/50         | ♦    | 4700       | 50   | 22 x 42 x 10               | 1.65    | 1.39   | 1.19   | 1.05   |
| 163302   | R4700/50         | JVP  | 4700       | 50   | 22 x 41 x 10               | 1.85    | 1.59   | 1.39   | 1.19   |
| 198935   | R6800J/25        | JVP  | 6800       | 25   | 18 x 35.5 x 7.5            | 1.25    | 1.05   | .85    | .65    |
| 608892   | UVR1A103MHD      | JVP  | 10000      | 10   | 16 x 35.5 x 7.5            | .69     | .55    | .45    | .35    |
| 608948   | UVR1C103MHD      | JVP  | 10000      | 16   | 18 x 35 x 7.5              | 1.29    | 1.09   | .95    | .79    |

♦ Blue Part No. = Limited Quantity Available

\* Capacitor dimensions and styles may vary on items with various manufacturers

\*\* Non-polarized

\* JVP = Jameco ValuePro | ♦ Manufacturer Varies

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 197.

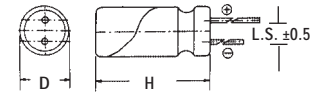
## Aluminum Radial-Lead Polarized Electrolytic Capacitors (±20%) 105°C

★ Web Code: HAA



### 105°C – HT Type General Purpose

|                           |              |                                     |
|---------------------------|--------------|-------------------------------------|
| Leakage Current<br>(20°C) | After 1 min. | 0.03CV or 4μA, whichever is greater |
|                           | After 2 min. | 0.01CV or 3μA, whichever is greater |



† CROSS REFERENCES: Nichicon: LB/VX/USA/SR/SA/UPW/UVZ/UHE; Elna: RC2/RE2; IC: RAR/RSS; Marcon: SEM/SSM; Rubycon: MS7/TWSS; Sprague: 501D/513D; UCC: SME/SRE/SRA/SRG; Panasonic: KA/KS/SU

\* Order in multiples of 10

\* Order in multiples of 10

| Part No. | Cross Ref. No.† | Mfr. | Value (μF) | Volt | Size (mm)*<br>D x H x L.S. | Pricing |        |        |        |
|----------|-----------------|------|------------|------|----------------------------|---------|--------|--------|--------|
|          |                 |      |            |      |                            | 1       | 10     | 100    | 500    |
| 609545   | UVZ1HOR1MDD     | JVP  | 0.1        | 50   | 5 x 11 x 2                 | *       | \$ .11 | \$ .08 | \$ .06 |
| 330772   | RB1/50          | JVP  | 1          | 50   | 5 x 11 x 2                 | *       | .07    | .05    | .036   |
| 158491   | R1B100          | JVP  | 1          | 100  | 5 x 11 x 2                 | *       | .12    | .09    | .07    |
| 609959   | UVZ2E010MED     | JVP  | 1          | 250  | 8 x 11 x 3.5               | *       | .12    | .09    | .07    |
| 609561   | UVZ1H2R2MDD     | JVP  | 2.2        | 50   | 5 x 11.5 x 2               | *       | .09    | .06    | .045   |
| 330781   | RB4.7/50        | JVP  | 4.7        | 50   | 5 x 11 x 2                 | *       | .07    | .05    | .04    |
| 330692   | RB10/16         | JVP  | 10         | 16   | 5 x 11 x 2                 | *       | .11    | .08    | .06    |
| 330799   | RB10/50         | ♦    | 10         | 50   | 5 x 11 x 2                 | *       | .07    | .05    | .037   |
| 607849   | UPW1H100MDD     | JVP  | 10         | 50   | 5 x 11 x 2                 | *       | .12    | .09    | .07    |
| 609641   | UVZ1J100MDD     | JVP  | 10         | 63   | 5 x 11 x 2                 | *       | .15    | .11    | .09    |
| 610036   | UVZ2W100MHD     | JVP  | 10         | 450  | 13 x 21 x 5                | .65     | .49    | .39    | .32    |
| 158327   | R22B35          | JVP  | 22         | 35   | 5 x 11 x 2                 | *       | .09    | .06    | .045   |
| 609650   | UVZ1J220MDD     | JVP  | 22         | 63   | 5 x 11 x 2                 | *       | .10    | .08    | .06    |
| 609828   | UVZ2C220MPD     | JVP  | 22         | 160  | 10 x 15 x 5                | *       | .19    | .15    | .12    |
| 609975   | UVZ2E220MHD     | JVP  | 22         | 250  | 13 x 20 x 5                | .29     | .25    | .19    | .15    |
| 607929   | UPW1H270MHD     | JVP  | 27         | 50   | 5 x 11 x 2                 | *       | .09    | .07    | .05    |
| 607945   | UPW1H330MED     | JVP  | 33         | 50   | 6.3 x 11 x 2.5             | *       | .15    | .12    | .09    |
| 609684   | UVZ1J330MED     | JVP  | 33         | 63   | 6.3 x 11 x 2.8             | *       | .12    | .09    | .07    |
| 608374   | UPW2A330MPD6    | JVP  | 33         | 100  | 8 x 15 x 3.5               | *       | .12    | .09    | .07    |
| 609502   | UVZ1C470MDD     | JVP  | 47         | 16   | 5 x 11 x 2                 | *       | .10    | .07    | .05    |
| 1945428  | R47/35          | ♦    | 47         | 35   | 6.3 x 11 x 2               | *       | .10    | .07    | .05    |
| 330820   | RB47/50         | JVP  | 47         | 50   | 6.3 x 11 x 2.5             | *       | .11    | .08    | .06    |
| 608139   | UPW1J470MPD     | JVP  | 47         | 63   | 8 x 11.5 x 3.5             | *       | .19    | .15    | .12    |
| 2100241  | RB47/100        | JVP  | 47         | 100  | 10 x 16 x 5                | .35     | .25    | .19    | .15    |
| 610010   | UVZ2E470MHD     | JVP  | 47         | 250  | 13 x 25 x 5                | .65     | .49    | .39    | .32    |
| 606862   | UHE1H560MED     | JVP  | 56         | 50   | 8.0 x 11 x 3.5             | *       | .09    | .07    | .05    |
| 1946228  | RB100/10        | ♦    | 100        | 10   | 5 x 11 x 3.5               | *       | .07    | .05    | .04    |
| 330740   | RB100/25        | JVP  | 100        | 25   | 6.3 x 11 x 2.5             | *       | .11    | .08    | .06    |
| 158394   | R100B50         | JVP  | 100        | 50   | 8 x 11.5 x 3.5             | *       | .15    | .12    | .09    |
| 608032   | UPL1J101MHH6    | JVP  | 100        | 63   | 13 x 15 x 5                | *       | .09    | .07    | .05    |
| 609748   | UVZ2A101MPD     | JVP  | 100        | 100  | 10 x 20 x 5                | .39     | .32    | .25    | .19    |
| 609967   | UVZ2E101MHD     | JVP  | 100        | 250  | 16 x 31 x 7.5              | 1.35    | 1.09   | .85    | .65    |
| 608340   | ECA1JFQ151L     | JVP  | 150        | 63   | 10 x 21 x 5                | *       | .12    | .09    | .07    |
| 1946236  | RB180/10        | ♦    | 180        | 10   | 6.5 x 11 x 2.5             | *       | .05    | .04    | .03    |
| 207845   | R180/16         | JVP  | 180        | 16   | 6 x 15 x 2.5               | *       | .05    | .04    | .03    |
| 606934   | EEUFC1J181      | JVP  | 180        | 63   | 10 x 20 x 5                | *       | .12    | .09    | .07    |
| 606555   | UHE1A221MED     | JVP  | 220        | 10   | 6.3 x 11 x 2.5             | *       | .07    | .05    | .04    |
| 158263   | R220B25         | JVP  | 220        | 25   | 8 x 11 x 3.5               | *       | .15    | .11    | .08    |
| 158407   | R220B50+        | JVP  | 220        | 50   | 10 x 17 x 5                | .39     | .32    | .25    | .19    |

| Part No. | Cross Ref. No.† | Mfr. | Value (μF) | Volt | Size (mm)*<br>D x H x L.S. | Pricing |      |      |     |
|----------|-----------------|------|------------|------|----------------------------|---------|------|------|-----|
|          |                 |      |            |      |                            | 1       | 10   | 100  | 500 |
| 606820   | UHE1H221MPD     | JVP  | 220        | 50   | 10 x 16 x 5                | .39     | .32  | .25  | .19 |
| 609764   | UVZ2A221MHD     | JVP  | 220        | 100  | 13 x 26 x 5                | .45     | .35  | .25  | .22 |
| 609721   | UVZ1V331MPD     | JVP  | 330        | 35   | 10 x 16 x 5                | *       | .19  | .15  | .12 |
| 607136   | UHE2A331MHD     | JVP  | 330        | 100  | 12.5 x 40 x 5              | .65     | .59  | .55  | .49 |
| 609852   | UVZ2C331MHD     | JVP  | 330        | 160  | 18 x 40 x 7.5              | .65     | .59  | .55  | .49 |
| 606977   | UHE1J391MHD     | JVP  | 390        | 63   | 18 x 15 x 7.5              | .29     | .25  | .19  | .15 |
| 158203   | R470B16         | JVP  | 470        | 16   | 8 x 11 x 3.5               | *       | .19  | .15  | .12 |
| 158289   | R470B25+        | ♦    | 470        | 25   | 10 x 16 x 5                | *       | .19  | .15  | .12 |
| 606740   | UHE1E471MPD6    | JVP  | 470        | 25   | 10 x 17 x 5                | .32     | .25  | .19  | .15 |
| 606854   | UHE1H471MPD     | JVP  | 470        | 50   | 13 x 20 x 5                | .45     | .35  | .29  | .22 |
| 608016   | UPW1H561MHD     | JVP  | 560        | 50   | 13 x 25 x 5                | .49     | .39  | .29  | .25 |
| 606871   | UHE1H681MHD     | JVP  | 680        | 50   | 13 x 28 x 5                | .85     | .65  | .49  | .39 |
| 608163   | UPW1J681MHD     | JVP  | 680        | 63   | 16 x 25 x 5                | .49     | .45  | .39  | .35 |
| 607689   | UPW1C821MPD     | JVP  | 820        | 16   | 10 x 20 x 5                | *       | .19  | .15  | .12 |
| 606432   | UHE0J102MPD     | JVP  | 1000       | 6.3  | 8 x 14 x 3.5               | *       | .17  | .12  | .09 |
| 330722   | RB1000/16       | JVP  | 1000       | 16   | 10 x 20 x 5                | .35     | .29  | .22  | .17 |
| 158298   | R1000B25        | JVP  | 1000       | 25   | 10 x 17 x 5                | .45     | .35  | .29  | .22 |
| 158378   | R1000B35        | JVP  | 1000       | 35   | 13 x 21 x 5                | .55     | .45  | .35  | .25 |
| 609553   | UVZ1H102MHD     | JVP  | 1000       | 50   | 13 x 25 x 5                | .55     | .45  | .35  | .29 |
| 607216   | UPW0J122MPD     | JVP  | 1200       | 6.3  | 10 x 15 x 5                | *       | .15  | .12  | .10 |
| 606627   | UHE1C122MPD     | JVP  | 1200       | 16   | 10 x 24 x 5                | .32     | .25  | .19  | .15 |
| 606918   | UHE1J122MHD     | JVP  | 1200       | 63   | 16 x 40 x 7.5              | .59     | .55  | .49  | .45 |
| 607232   | UPW0J152MPD     | JVP  | 1500       | 6.3  | 10 x 20 x 5                | .39     | .32  | .25  | .19 |
| 607398   | UPW1A152MPD6    | JVP  | 1500       | 10   | 10 x 20 x 5                | .39     | .32  | .25  | .19 |
| 607742   | UPW1E152MHD6    | JVP  | 1500       | 25   | 12.5 x 25 x 5              | .45     | .35  | .29  | .25 |
| 607873   | UPW1H152MHD     | JVP  | 1500       | 50   | 16 x 30 x 7.5              | .99     | .89  | .79  | .69 |
| 606467   | UHE0J182MHD     | JVP  | 1800       | 6.3  | 10 x 20 x 5                | .35     | .25  | .19  | .15 |
| 607751   | UPW1E182MHD     | JVP  | 1800       | 25   | 13 x 25 x 5                | .75     | .59  | .45  | .35 |
| 609342   | UVZ0J222MPD     | JVP  | 2200       | 6.3  | 10 x 20 x 5                | .39     | .32  | .25  | .19 |
| 606563   | UHE1A222MPD     | JVP  | 2200       | 10   | 10 x 24 x 5                | .45     | .35  | .29  | .22 |
| 609705   | UVZ1V222MHD     | JVP  | 2200       | 35   | 16 x 26 x 7.5              | .69     | .55  | .45  | .35 |
| 158432   | R2200B50        | JVP  | 2200       | 50   | 16 x 30 x 7.5              | .99     | .79  | .65  | .55 |
| 608278   | UPW1V332MHD     | JVP  | 3300       | 35   | 18 x 33 x 7.5              | 1.35    | 1.15 | .95  | .75 |
| 609588   | UVZ1H332MHD     | JVP  | 3300       | 50   | 18 x 36 x 7.5              | 1.49    | 1.25 | 1.05 | .85 |
| 607814   | UPW1E472MHD     | JVP  | 4700       | 25   | 18 x 35 x 7.5              | 1.25    | 1.05 | .85  | .65 |
| 607697   | UPW1C822MPD     | JVP  | 8200       | 16   | 16 x 33 x 7.5              | 1.19    | .99  | .89  | .75 |
| 609473   | UVZ1C103MHD     | JVP  | 10000      | 16   | 18 x 41 x 7.5              | 1.19    | .99  | .89  | .75 |
| 609326   | UVZ0J153MHD     | JVP  | 15000      | 6.3  | 16 x 35.5 x 7.5            | .59     | .55  | .49  | .45 |

\* Capacitor dimensions and styles may vary on items with various manufacturers

Passives

## Snap-Mount Large-Can Aluminum Electrolytic Capacitors (±20%)



- Operating temperature range: (SNA) -40°C to +85°C; (SNB) -40°C to +105°C
- Can-Top safety vent

★ Web Code: EBG

| Part No. | Cross Ref. No. | Mfr. | Value (μF) | Volt | Size (mm)*<br>D x H x L.S. | Pricing |        |        |
|----------|----------------|------|------------|------|----------------------------|---------|--------|--------|
|          |                |      |            |      |                            | 1       | 10     | 100    |
| 331846   | SNA120/450     | JVP  | 120        | 450  | 22 x 40 x 8.6              | \$2.49  | \$2.25 | \$1.95 |
| 331811   | SNA470/250     | JVP  | 470        | 250  | 25 x 40 x 8.6              | 1.95    | 1.75   | 1.49   |
| 203263   | SNB470/400/5   | JVP  | 470        | 450  | 35 x 49 x 9                | 6.95    | 5.95   | 4.95   |
| 155889   | SN560/200      | ♦    | 560        | 200  | 23 x 41 x 9.5              | 1.09    | .99    | .89    |
| 115378   | SNB4700/35     | ♦    | 4700       | 35   | 25 x 40 x 9                | .99     | .89    | .79    |
| 115422   | SNA4700/50     | JVP  | 4700       | 50   | 30 x 41 x 9.5              | 1.29    | 1.09   | .99    |

| Part No. | Cross Ref. No. | Mfr. | Value (μF) | Volt | Size (mm)*<br>D x H x L.S. | Pricing |        |        |
|----------|----------------|------|------------|------|----------------------------|---------|--------|--------|
|          |                |      |            |      |                            | 1       | 10     | 100    |
| 331723   | SNA4700/63     | JVP  | 4700       | 63   | 25 x 40 x 9.1              | \$3.49  | \$3.15 | \$2.85 |
| 331901   | SNB6800/50     | JVP  | 6800       | 50   | 25.2 x 42.4 x 9            | 3.95    | 3.49   | 2.95   |
| 157738   | SNB10000/50    | JVP  | 10000      | 50   | 35 x 40 x 12               | 4.75    | 3.75   | 3.25   |
| 331716   | SNA15000/25    | JVP  | 15000      | 25   | 25 x 41 x 9                | 3.49    | 2.95   | 2.49   |
| 210022   | U32D†          | ♦    | 33000      | 50   | 35 x 117 x 13              | 9.95    | 8.95   | 7.95   |

\* Capacitor dimensions and styles may vary on items with various manufacturers

† Screw terminals

\* JVP = Jameco ValuePro | ♦ Manufacturer Varies

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above



# Electrolytic & Dipped Tantalum Capacitors

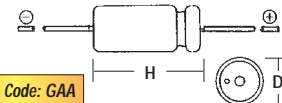
3 LEVELS OF SAVINGS  
NAME BRANDS HOUSE BRANDS FACTORY OVERRUN

JAMECO ValuePro

## Aluminum Axial-Lead Electrolytic Capacitors (±20%) 85°C



|  |                                     |
|--|-------------------------------------|
| Operating temperature range            | -40°C to +85°C                      |
| Leakage Current (After 2 minutes 20°C) | 0.02CV or 2µA, whichever is greater |



★ Web Code: GAA

\* Order in multiples 10

| Part No. | Product No. | Mfr. | Value<br>(µF) | Voltage | Size (mm)*<br>D x H | Pricing |        |        |        |
|----------|-------------|------|---------------|---------|---------------------|---------|--------|--------|--------|
|          |             |      |               |         |                     | 1       | 10     | 100    | 500    |
| 10866    | A1/50       | ◆    | 1             | 50V     | 5 x 13              | ✱       | \$ .17 | \$ .14 | \$ .11 |
| 10868    | A1/50       | JVP  | 1             | 50V     | 5 x 12              | .29     | .22    | .17    | .14    |
| 93569    | A2.2/50     | ◆    | 2.2           | 50V     | 6 x 13              | ✱       | .15    | .12    | .09    |
| 11076    | A4.7/50     | ◆    | 4.7           | 50V     | 6 x 13              | ✱       | .17    | .14    | .11    |
| 1946201  | A10/16A     | ◆    | 10            | 16V     | 5 x 13              | ✱       | .06    | .04    | .03    |
| 1946199  | A10/16      | ◆    | 10            | 16V     | 4 x 7               | ✱       | .08    | .04    | .03    |
| 10882    | A10/50      | ◆    | 10            | 50V     | 6 x 12              | ✱       | .15    | .12    | .09    |
| 10884    | A10/50      | JVP  | 10            | 50V     | 6 x 12              | ✱       | .15    | .12    | .09    |
| 331425   | AB10/450    | JVP  | 10            | 450V    | 13 x 25             | .95     | .75    | .59    | .49    |
| 1946210  | A22/16      | ◆    | 22            | 16V     | 5 x 11              | ✱       | .09    | .05    | —      |
| 199268   | A22J/25     | JVP  | 22            | 25V     | 6 x 12.5            | ✱       | .15    | .12    | .09    |
| 331433   | AB22/450    | JVP  | 22            | 450V    | 16 x 26.5           | 1.75    | 1.49   | 1.25   | .99    |
| 2081730  | A33/35      | JVP  | 33            | 35V     | 7 x 14              | ✱       | .12    | .09    | .07    |
| 135319   | A47/25      | ◆    | 47            | 25V     | 8 x 16              | ✱       | .17    | .14    | .11    |
| 199188   | A100J/16    | JVP  | 100           | 16V     | 6 x 12.5            | .29     | .22    | .17    | .14    |
| 199284   | A100J/25    | JVP  | 100           | 25V     | 8 x 15              | ✱       | .19    | .15    | .12    |
| 93551    | A100/35     | ◆    | 100           | 35V     | 8 x 16              | .29     | .22    | .17    | .14    |
| 10911    | A100/50     | ◆    | 100           | 50V     | 8 x 20              | .29     | .22    | .17    | .14    |
| 10913    | A100/50     | JVP  | 100           | 50V     | 8 x 16              | .32     | .25    | .19    | .15    |
| 331380   | AB100/100   | JVP  | 100           | 100V    | 10 x 20.5           | .45     | .39    | .35    | .29    |

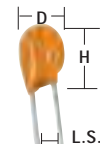
\* Capacitor dimensions and styles may vary on items with various manufacturers

JAMECO ValuePro

## Resin Dipped Solid Tantalum Capacitors (±10%)

- Operating temperature range: -55°C to +85°C (+125°C with derating)
- Exceptional temperature stability
- Flame retardant coating
- Designed for entertainment and commercial equipment
- Rated voltage DC: ≤ +85°C
- Low leakage current
- Moisture-resistant

★ Web Code: VAE



\* Order in multiples 10

| Part No. | Product No.   | Mfr. | Value<br>(µF) | Voltage<br>(V) | Size (mm)*<br>D x H x L.S. | Pricing |       |       |       |
|----------|---------------|------|---------------|----------------|----------------------------|---------|-------|-------|-------|
|          |               |      |               |                |                            | 1       | 10    | 100   | 500   |
| 33486    | TM.1/35       | ◆    | .10           | 35             | 4.5 x 7.0 x 5.2            | \$.32   | \$.25 | \$.19 | \$.15 |
| 33488    | TM.1          | JVP  | .10           | 35             | 4.5 x 7.0 x 2.5            | .39     | .32   | .25   | .19   |
| 545561   | TAP104K035SCS | JVP  | .10           | 35             | 4.0 x 6.0 x 2.5            | .39     | .32   | .25   | .19   |
| 545570   | TAP104K050SCS | JVP  | .10           | 50             | 4.0 x 6.0 x 2.5            | ✱       | .19   | .15   | .12   |
| 33507    | TM.22/35      | ◆    | .22           | 35             | 4.5 x 7.0 x 5.0            | .32     | .25   | .19   | .15   |
| 33523    | TM.33/35      | ◆    | .33           | 35             | 4.5 x 7.0 x 2.5            | .32     | .25   | .19   | .15   |
| 33525    | TM.33         | JVP  | .33           | 35             | 4.5 x 7.0 x 2.5            | .39     | .32   | .25   | .19   |
| 33531    | TM.47/35      | ◆    | .47           | 35             | 4.5 x 7.0 x 2.7            | .32     | .25   | .19   | .15   |
| 33533    | TM.47         | JVP  | .47           | 35             | 4.5 x 7.0 x 2.5            | .39     | .32   | .25   | .19   |
| 61102    | TM.68         | JVP  | .68           | 35             | 4.5 x 7.0 x 2.5            | ✱       | .12   | .09   | .07   |
| 546142   | TAP684K050SCS | JVP  | .68           | 50             | 4.3 x 7.0 x 2.5            | ✱       | .19   | .15   | .12   |
| 154860   | TM1/25        | ◆    | 1             | 25             | 4.5 x 7.0 x 4.7            | .32     | .25   | .19   | .15   |
| 545588   | TAP105K025SCS | JVP  | 1             | 25             | 4.3 x 7.0 x 2.5            | .39     | .32   | .25   | .19   |
| 154862   | TM1/25        | JVP  | 1             | 25             | 4.5 x 7.0 x 2.5            | .39     | .32   | .25   | .19   |
| 33662    | TM1/35        | ◆    | 1             | 35             | 4.5 x 7.0 x 2.7            | .35     | .29   | .22   | .17   |
| 545596   | TAP105K035SCS | JVP  | 1             | 35             | 4.3 x 7.0 x 2.5            | .39     | .32   | .25   | .19   |
| 33664    | TM1           | JVP  | 1             | 35             | 4.5 x 7.0 x 2.5            | .39     | .32   | .25   | .19   |
| 545609   | TAP105K050SCS | JVP  | 1             | 50             | 4.7 x 7.5 x 2.5            | .59     | .55   | .45   | .29   |
| 94001    | TM2.2/16      | ◆    | 2.2           | 16             | 4.5 x 7.0 x 4.7            | .32     | .25   | .19   | .15   |
| 94003    | TM2.2/16      | JVP  | 2.2           | 16             | 4.5 x 7.0 x 2.5            | .35     | .25   | .22   | .17   |
| 33736    | TM2.2/35      | JVP  | 2.2           | 35             | 5.0 x 8.0 x 2.5            | .35     | .29   | .22   | .17   |
| 332152   | TDR2.2/50     | JVP  | 2.2           | 50             | 6.5 x 11 x 2.5             | .49     | .45   | .39   | .35   |
| 545941   | TAP335K025SCS | JVP  | 3.3           | 25             | 4.3 x 7.0 x 2.5            | .45     | .35   | .29   | .22   |
| 545967   | TAP335K050SCS | JVP  | 3.3           | 50             | 5.4 x 8.0 x 2.5            | .59     | .49   | .39   | .35   |
| 94035    | TM4.7/16      | ◆    | 4.7           | 16             | 5.0 x 8.0 x 2.5            | .35     | .29   | .22   | .17   |

Note: Above case sizes may have ± tolerances

\* Capacitor dimensions and styles may vary

\* Order in multiples 10

| Part No. | Product No.   | Mfr. | Value<br>(µF) | Voltage<br>(V) | Size (mm)*<br>D x H x L.S. | Pricing |       |       |       |
|----------|---------------|------|---------------|----------------|----------------------------|---------|-------|-------|-------|
|          |               |      |               |                |                            | 1       | 10    | 100   | 500   |
| 94043    | TM4.7/25      | ◆    | 4.7           | 25             | 5.0 x 8.0 x 4.7            | \$.45   | \$.35 | \$.29 | \$.22 |
| 546071   | TAP475K025SCS | JVP  | 4.7           | 25             | 4.3 x 7.0 x 2.5            | .55     | .45   | .35   | .29   |
| 33806    | TM4.7/35      | ◆    | 4.7           | 35             | 5.5 x 9.5 x 2.5            | .49     | .39   | .32   | .25   |
| 546089   | TAP475K035SCS | JVP  | 4.7           | 35             | 4.7 x 7.5 x 2.5            | .59     | .49   | .39   | .32   |
| 546185   | TAP685K025SCS | JVP  | 6.8           | 25             | 4.7 x 7.5 x 2.5            | .49     | .39   | .32   | .25   |
| 33873    | TM6.8/35      | ◆    | 6.8           | 35             | 6.5 x 9.0 x 4.7            | .45     | .35   | .29   | .22   |
| 545617   | TAP106K006SCS | JVP  | 10            | 6.3            | 4.3 x 7.0 x 2.5            | .32     | .25   | .19   | .15   |
| 545625   | TAP106K010SCS | JVP  | 10            | 10             | 4.7 x 7.5 x 2.5            | .49     | .39   | .32   | .25   |
| 94060    | TM10/16       | ◆    | 10            | 16             | 4.6 x 7.5 x 3.2            | .49     | .39   | .32   | .25   |
| 94062    | TM10/16       | JVP  | 10            | 16             | 5.0 x 8.0 x 2.5            | .55     | .45   | .35   | .29   |
| 545633   | TAP106K020SCS | JVP  | 10            | 20             | 5.4 x 8.0 x 2.5            | .45     | .35   | .29   | .25   |
| 94078    | TM10/25       | ◆    | 10            | 25             | 5.5 x 9.5 x 2.8            | .55     | .45   | .35   | .29   |
| 545641   | TAP106K025SCS | JVP  | 10            | 25             | 5.4 x 8.0 x 2.5            | .55     | .45   | .35   | .29   |
| 94080    | TM10/25       | JVP  | 10            | 25             | 5.5 x 9.5 x 2.5            | .59     | .49   | .39   | .32   |
| 33689    | TM10/35       | ◆    | 10            | 35             | 6.5 x 11.0 x 4.7           | .99     | .79   | .65   | .49   |
| 545650   | TAP106K035SCS | JVP  | 10            | 35             | 5.4 x 8.0 x 2.5            | 1.15    | .95   | .79   | .65   |
| 33691    | TM10          | JVP  | 10            | 35             | 5.5 x 11.0 x 2.5           | 1.15    | .95   | .79   | .65   |
| 332161   | TDR10/50      | JVP  | 10            | 50             | 8.5 x 13.0 x 2.5           | 2.49    | 2.25  | 1.95  | 1.75  |
| 545721   | TAP156K010SCS | JVP  | 15            | 10             | 4.7 x 7.5 x 2.5            | ✱       | .15   | .12   | .09   |
| 545748   | TAP156K020SCS | JVP  | 15            | 20             | 5.4 x 8.0 x 2.5            | .35     | .29   | .25   | .19   |
| 33719    | TM15/25       | JVP  | 15            | 25             | 4.5 x 8.0 x 2.5            | .79     | .65   | .49   | .39   |
| 597468   | TAP156K035SCS | JVP  | 15            | 35             | 5.5 x 9.5 x 4.7            | .99     | .89   | .79   | .69   |
| 33751    | TM22/6.3      | ◆    | 22            | 6.3            | 4.7 x 7.5 x 2.5            | .29     | .25   | .19   | .15   |
| 94094    | TM22/16       | ◆    | 22            | 16             | 5.5 x 9.5 x 4.1            | .55     | .45   | .35   | .29   |
| 94095    | TM22/16       | JVP  | 22            | 16             | 5.5 x 9.5 x 2.5            | .55     | .45   | .35   | .29   |
| 545852   | TAP226K016SCS | JVP  | 22            | 16             | 5.4 x 8.0 x 2.5            | .69     | .55   | .45   | .35   |

Capacitors continued on next page

\* JVP = Jameco ValuePro | ◆ Manufacturer Varies

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 197.

# Dipped Tantalum & Ceramic Capacitors

JAMECO ValuePro

## Resin Dipped Solid Tantalum Capacitors (±10%) (Continued)

★ Web Code: VAE

| Part No. | Product No.   | Mfr. | Value (μF) | Volt (V) | Size (mm)*<br>D x H x L x S. | Pricing |        |        |        |
|----------|---------------|------|------------|----------|------------------------------|---------|--------|--------|--------|
|          |               |      |            |          |                              | 1       | 10     | 100    | 500    |
| 94107    | TM22/25       | ◆    | 22         | 25       | 8.5 x 13.0 x 3.2             | \$1.59  | \$1.35 | \$1.09 | \$0.89 |
| 545879   | TAP226K025SCS | JVP  | 22         | 25       | 6.0 x 9.4 x 2.5              | 1.75    | 1.49   | 1.25   | .99    |
| 332101   | TDR22/35      | JVP  | 22         | 35       | 8.5 x 13 x 2.5               | 1.29    | 1.09   | .95    | .89    |
| 545887   | TAP226K035SCS | JVP  | 22         | 35       | 7.0 x 11.0 x 2.5             | 1.75    | 1.49   | 1.29   | 1.09   |
| 545991   | TAP336K016SCS | JVP  | 33         | 16       | 6.0 x 9.4 x 2.5              | .95     | .85    | .75    | .65    |
| 546003   | TAP336K020SCS | JVP  | 33         | 20       | 6.0 x 9.4 x 2.5              | .59     | .55    | .49    | .45    |
| 33785    | TM33/25       | ◆    | 33         | 25       | 8.5 x 13.0 x 4.7             | 1.75    | 1.49   | 1.25   | .99    |
| 546020   | TAP336K035SCS | JVP  | 33         | 35       | 8.2 x 12.5 x 2.5             | 1.95    | 1.75   | 1.45   | 1.29   |
| 546100   | TAP476K010SCS | JVP  | 47         | 10       | 6.0 x 9.4 x 2.5              | 1.25    | .99    | .79    | .65    |
| 94123    | TM47/16       | ◆    | 47         | 16       | 5.2 x 8.2 x 2.5              | 1.49    | 1.25   | .99    | .79    |

◆ Blue Part No. = Limited Quantity Available

| Part No. | Product No.   | Mfr. | Value (μF) | Volt (V) | Size (mm)*<br>D x H x L x S. | Pricing |        |        |        |
|----------|---------------|------|------------|----------|------------------------------|---------|--------|--------|--------|
|          |               |      |            |          |                              | 1       | 10     | 100    | 500    |
| 546118   | TAP476K016SCS | JVP  | 47         | 16       | 6.0 x 9.4 x 2.5              | \$1.75  | \$1.49 | \$1.25 | \$0.99 |
| 33822    | TM47          | ◆    | 47         | 25       | 9.5 x 16.5 x 2.5             | 1.59    | 1.35   | 1.15   | .99    |
| 546206   | TAP686K006SCS | JVP  | 68         | 6.3      | 5.0 x 8.2 x 2.5              | .79     | .69    | .59    | .49    |
| 546222   | TAP686K016SCS | JVP  | 68         | 16       | 7.0 x 11.0 x 2.5             | 1.95    | 1.75   | 1.49   | 1.25   |
| 33700    | TM100/35      | ◆    | 100        | 6.3      | 8.5 x 13.0 x 4.7             | 1.35    | 1.15   | .95    | .79    |
| 545668   | TAP107K006SCS | JVP  | 100        | 6.3      | 6.0 x 9.4 x 2.5              | .95     | .85    | .75    | .65    |
| 597450   | TAP107K016SCS | JVP  | 100        | 16       | 7.0 x 11.0 x 2.5             | 2.75    | 2.49   | 2.25   | 1.95   |
| 545684   | TAP107K020SCS | JVP  | 100        | 20       | 8.2 x 12.5 x 2.5             | 3.49    | 3.15   | 2.75   | 2.49   |
| 545772   | TAP157K010SCS | JVP  | 150        | 10       | 7.0 x 11 x 2.5               | 1.49    | 1.25   | 1.09   | .95    |

Note: Above case sizes may have ± tolerances

\*Capacitor dimensions and styles may vary

JAMECO ValuePro

## Ceramic Disc Capacitors (±5, ±10 or ±20%)

25, 50, 500 and 1000 Volt, Z5U Temperature Coefficient

★ Web Code: HBW



- Operating temp. range: +10°C to +85°C
- Dielectric withstanding voltage: 2.5 times rated volt. for not < 1 sec.
- Capacitance change over temp. range: +22% to -56%

\* Order in multiples of 10

\* Order in multiples of 10

| Part No. | Product No. | Mfr. | Value | Volt (V) | Tol. | Dia. (mm) | Pricing |        |        |        |        |
|----------|-------------|------|-------|----------|------|-----------|---------|--------|--------|--------|--------|
|          |             |      |       |          |      |           | 1       | 10     | 100    | 1000   | 5000   |
| 332291   | CD3.3/1000  | JVP  | 3.3pF | 1000     | 20   | 5         | *       | \$0.19 | \$0.15 | \$0.13 | \$0.09 |
| 15333    | DC10        | ◆    | 10pF  | 50       | 20   | 5         | *       | .06    | .04    | .032   | .025   |
| 332312   | CD10/1000   | JVP  | 10pF  | 1000     | 20   | 6         | *       | .15    | .12    | .09    | .07    |
| 332322   | CD20/1000   | JVP  | 20pF  | 1000     | 20   | 5         | *       | .29    | .22    | .17    | .14    |
| 15405    | DC22        | ◆    | 22pF  | 50       | 20   | 6         | *       | .06    | .04    | .032   | .025   |
| 15407    | DC22        | JVP  | 22pF  | 50       | 20   | 6         | *       | .07    | .05    | .035   | .028   |
| 332217   | CD33/50     | JVP  | 33pF  | 50       | 20   | 5         | *       | .08    | .06    | .045   | .035   |
| 1947010  | DC33TR      | ◆    | 33pF  | 100      | 10   | 5         | *       | .06    | .04    | .025   | .01    |
| 1947028  | DC33ATR     | ◆    | 33pF  | 500      | 5    | 5         | *       | .06    | .04    | .02    | .015   |
| 15512    | DC47        | JVP  | 47pF  | 50       | 20   | 5         | *       | .08    | .06    | .045   | .039   |
| 1947036  | DC47TR      | ◆    | 47pF  | 500      | 5    | 6         | *       | .06    | .04    | .03    | .015   |
| 332347   | CD47/1000   | JVP  | 47pF  | 1000     | 20   | 5         | *       | .12    | .09    | .07    | .05    |
| 15341    | DC100       | ◆    | 100pF | 50       | 20   | 5         | *       | .06    | .04    | .032   | .025   |
| 15343    | DC100       | JVP  | 100pF | 50       | 20   | 5         | *       | .08    | .06    | .045   | .039   |
| 1947044  | DC100TR     | ◆    | 100pF | 100      | 10   | 8         | *       | .06    | .04    | .025   | .015   |
| 332363   | CD120/1000  | JVP  | 120pF | 1000     | 20   | 5         | *       | .12    | .09    | .07    | .05    |
| 1947052  | DC150TR     | ◆    | 150pF | 100      | 10   | 8         | *       | .05    | .03    | .02    | .01    |
| 1947087  | DC150ATR    | ◆    | 150pF | 100      | 5    | 4         | *       | .06    | .04    | .025   | .015   |
| 332371   | CD150/1000  | JVP  | 150pF | 1000     | 20   | 5         | *       | .19    | .15    | .12    | .09    |
| 15413    | DC220       | ◆    | 220pF | 50       | 20   | 5         | *       | .06    | .04    | .025   | .015   |
| 1947132  | DC220TR     | ◆    | 220pF | 50       | 5    | 8         | *       | .06    | .04    | .025   | .015   |
| 1947159  | DC220ATR    | ◆    | 220pF | 100      | 5    | 7         | *       | .06    | .04    | .025   | .015   |
| 1947239  | DC220BTR    | ◆    | 220pF | 500      | 10   | 10        | *       | .06    | .04    | .025   | .015   |
| 332380   | CD220/1000  | JVP  | 220pF | 1000     | 20   | 5         | *       | .15    | .09    | .07    | .05    |
| 15448    | DC330       | ◆    | 330pF | 50       | 20   | 5         | *       | .05    | .03    | .02    | .015   |
| 1947301  | DC330TR     | ◆    | 330pF | 100      | 20   | 5         | *       | .06    | .04    | .025   | .015   |
| 1947378  | DC330ATR    | ◆    | 330pF | 500      | 20   | 5         | *       | .06    | .04    | .02    | .015   |
| 15528    | DC470       | ◆    | 470pF | 50       | 20   | 5         | *       | .07    | .05    | .03    | .025   |
| 1947319  | DC470TR     | ◆    | 470pF | 100      | 20   | 5         | *       | .06    | .04    | .025   | .015   |

TR at the end of Product Number are Tape and Reel

| Part No. | Product No.   | Mfr. | Value   | Volt (V) | Tol. | Dia. (mm) | Pricing |        |        |        |        |
|----------|---------------|------|---------|----------|------|-----------|---------|--------|--------|--------|--------|
|          |               |      |         |          |      |           | 1       | 10     | 100    | 1000   | 5000   |
| 332401   | CD470/1000    | JVP  | 470pF   | 1000     | 20   | 5         | *       | \$0.17 | \$0.14 | \$0.11 | \$0.09 |
| 332420   | CD560/1000    | JVP  | 560pF   | 1000     | 20   | 6         | *       | .17    | .14    | .11    | .09    |
| 15190    | DC.001        | ◆    | .001μF  | 50       | 20   | 6         | *       | .06    | .04    | .03    | .02    |
| 15192    | DC.001        | JVP  | .001μF  | 50       | 20   | 6         | *       | .06    | .04    | .025   | .02    |
| 1947343  | DC.001TR      | ◆    | .001μF  | 100      | 20   | 4         | *       | .06    | .04    | .025   | .015   |
| 1947394  | DC.001ATR     | ◆    | .001μF  | 500      | 20   | 4         | *       | .05    | .03    | .02    | .015   |
| 1947415  | DC.001BTR     | ◆    | .001μF  | 500      | 10   | 7         | *       | .05    | .03    | .02    | .015   |
| 332436   | CD1000/1000   | JVP  | .001μF  | 1000     | 20   | 5         | *       | .32    | .25    | .19    | .15    |
| 1947327  | DC.0022TR     | ◆    | .0022μF | 25       | 20   | 4         | *       | .06    | .04    | .025   | .015   |
| 1947386  | DC.0022ATR    | ◆    | .0022μF | 500      | 20   | 7         | *       | .05    | .03    | .02    | .015   |
| 332443   | CD2200/1000   | JVP  | .0022μF | 1000     | 20   | 6         | *       | .12    | .09    | .07    | .05    |
| 1947407  | DC.0033       | ◆    | .0033μF | 500      | 20   | 9         | *       | .05    | .03    | .02    | .015   |
| 15211    | DC.0047       | ◆    | .0047μF | 50       | 20   | 6         | *       | .07    | .05    | .04    | .025   |
| 1947335  | DC.0047TR     | ◆    | .0047μF | 100      | 20   | 5         | *       | .06    | .04    | .025   | .015   |
| 15229    | DC.01         | ◆    | .01μF   | 50       | 20   | 6         | *       | .06    | .04    | .032   | .025   |
| 15231    | DC.01         | JVP  | .01μF   | 50       | 20   | 6         | *       | .07    | .05    | .035   | .03    |
| 97375    | DC.01/1K20    | ◆    | .01μF   | 1000     | 20   | 12        | *       | .29    | .22    | .17    | .14    |
| 97377    | DC.01/1K20    | JVP  | .01μF   | 1000     | 20   | 12        | *       | .35    | .29    | .22    | .17    |
| 332487   | CD20000/1000  | JVP  | .02μF   | 1000     | 20   | 16        | *       | .55    | .45    | .35    | .29    |
| 15245    | DC.022        | ◆    | .022μF  | 50       | 20   | 8         | *       | .08    | .06    | .045   | .039   |
| 1947351  | DC.047B       | ◆    | .047μF  | 25       | 20   | 7         | *       | .08    | .06    | .04    | .02    |
| 15253    | DC.047        | ◆    | .047μF  | 50       | 20   | 8         | *       | .09    | .07    | .045   | .035   |
| 15255    | DC.047        | JVP  | .047μF  | 50       | 20   | 8         | *       | .10    | .08    | .06    | .05    |
| 332507   | CD50000/1000  | JVP  | .05μF   | 1000     | 20   | 16        | *       | .99    | .79    | .65    | .49    |
| 151116   | DC.1/25       | ◆    | .1μF    | 25       | 20   | 6         | *       | .11    | .08    | .06    | .05    |
| 151118   | DC.1/25       | JVP  | .1μF    | 25       | 20   | 6         | *       | .12    | .09    | .07    | .055   |
| 15270    | DC.1          | ◆    | .1μF    | 50       | 20   | 8         | *       | .19    | .15    | .12    | .09    |
| 15272    | DC.1          | JVP  | .1μF    | 50       | 20   | 8         | *       | .32    | .25    | .19    | .15    |
| 332516   | CD100000/1000 | JVP  | .1μF    | 1000     | 20   | 21        | *       | 1.49   | 1.25   | 1.09   | .95    |

TR at the end of Product Number are Tape and Reel

JAMECO ValuePro

## Axial Leaded Ceramic Capacitors (±5, ±10, ±20 or ±100%)

★ Web Code: ACC

50, 100 and 200 Volt, NPO, X7R and Z5U Temperature

Order in multiples of 10

Order in multiples of 10

| Part No. | Product No.  | Mfr. | Value  | Volt (V) | Temp Co-eff. | Tol. | Pricing |        |        |
|----------|--------------|------|--------|----------|--------------|------|---------|--------|--------|
|          |              |      |        |          |              |      | 10      | 100    | 1000   |
| 546273   | SA102A220JAA | JVP  | 22pF   | 200      | NPO          | 5    | \$0.09  | \$0.06 | \$0.05 |
| 546265   | SA102A101JAA | JVP  | 100pF  | 200      | NPO          | 5    | .09     | .06    | .05    |
| 546281   | SA105A102JAA | JVP  | 1000pF | 50       | NPO          | 5    | .09     | .06    | .05    |
| 546249   | SA101C102KAA | JVP  | 1000pF | 100      | X7R          | 10   | .07     | .05    | .03    |
| 1069763  | SA101C222KAA | AVX  | 2200pF | 100      | X7R          | 10   | .12     | .07    | .05    |

| Part No. | Product No.  | Mfr. | Value  | Volt (V) | Temp Co-eff. | Tol. | Pricing |        |        |
|----------|--------------|------|--------|----------|--------------|------|---------|--------|--------|
|          |              |      |        |          |              |      | 10      | 100    | 1000   |
| 546290   | P10R103K5    | JVP  | 0.01μF | 50       | X7R          | 10   | \$0.12  | \$0.09 | \$0.07 |
| 546302   | SA105E103MAA | JVP  | 0.01μF | 50       | Z5U          | 20   | .09     | .06    | .05    |
| 546257   | SA101C103KAA | JVP  | 0.01μF | 100      | Z7R          | 100  | .07     | .05    | .03    |
| 536542   | P20R104K5    | ◆    | 0.1μF  | 50       | X7R          | 10   | .12     | .09    | .07    |
| 546345   | SA305E105MAA | JVP  | 1.0μF  | 50       | Z5U          | 20   | .09     | .06    | .05    |

\* AVX = AVX Corp. | JVP = Jameco ValuePro | ◆ Manufacturer Varies

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above



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# Ceramic & Metallized Capacitors

3 LEVELS OF SAVINGS  
NAME BRANDS HOUSE BRANDS FACTORY OVERRUN

JAMECO ValuePro

## Monolithic Radial Ceramic Capacitors

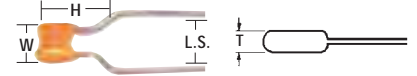
\*Web Code: JBW

### NPO (COG) Series (±5%)

Order in multiples of 10

| Part No. | Product No.  | *Mfr. | Value | Volt. (V) | Size (mm)*<br>W x T x H x L.S. | Pricing |       |       |       |
|----------|--------------|-------|-------|-----------|--------------------------------|---------|-------|-------|-------|
|          |              |       |       |           |                                | 10      | 100   | 1000  | 5000  |
| 332523   | COG10/100    | JVP   | 10pF  | 100       | 4.0 x 2.0 x 3.2 x 5.1          | \$.09   | \$.07 | \$.06 | \$.04 |
| 332541   | COG22/100    | JVP   | 22pF  | 100       | 3.6 x 2.3 x 3.6 x 2.5          | .13     | .09   | .07   | .05   |
| 2080358  | RD15CG-240J  | ♦     | 24pF  | 50        | 4.0 x 2.0 x 3.6 x 2.5          | .07     | .05   | .04   | .02   |
| 2080331  | RD15CG-270J  | PDC   | 27pF  | 50        | 4.0 x 2.0 x 3.6 x 2.5          | .09     | .07   | .06   | .04   |
| 2080323  | RD15CG-390M† | PDC   | 39pF  | 50        | 4.0 x 2.0 x 3.6 x 2.5          | .09     | .07   | .06   | .04   |
| 332567   | COG47/100    | JVP   | 47pF  | 100       | 3.8 x 2.0 x 3.3 x 2.5          | .12     | .09   | .07   | .05   |
| 332574   | COG68/100    | JVP   | 68pF  | 100       | 3.6 x 1.5 x 3.6 x 5.1          | .12     | .09   | .07   | .05   |
| 2080340  | RD15CG-331J  | PDC   | 330pF | 50        | 4.0 x 2.0 x 3.6 x 2.5          | .09     | .07   | .06   | .04   |

- Data processing
- Communications engineering
- Operating temp. range: -10°C to +85°C



### Z5U Series (±20%)

\* Order in multiples of 10

| Part No. | Product No.  | *Mfr. | Value   | Volt. (V) | Size (mm)*<br>W x T x H x L.S. | Pricing |       |       |       |
|----------|--------------|-------|---------|-----------|--------------------------------|---------|-------|-------|-------|
|          |              |       |         |           |                                | 1       | 10    | 100   | 1000  |
| 81543    | MD10         | JVP   | 10pF    | 50        | 3.5 x 2.0 x 3.0 x 2.5          | *.05    | \$.05 | \$.04 | \$.03 |
| 81533    | MD22         | ♦     | 22pF    | 50        | 4.0 x 2.0 x 4.0 x 5.1          | *.12    | .09   | .07   |       |
| 81525    | MD100        | ♦     | 100pF   | 50        | 3.3 x 2.0 x 3.0 x 2.5          | *.09    | .07   | .06   |       |
| 81517    | MD.001       | ♦     | .001μF  | 50        | 4.5 x 2.0 x 3.0 x 2.5          | *.10    | .08   | .06   |       |
| 138181   | MD.022       | ♦     | .0022μF | 50        | 4.0 x 2.0 x 5.5 x 2.5          | *.10    | .08   | .06   |       |
| 25507    | MD.01        | ♦     | .01μF   | 50        | 3.5 x 2.0 x 3.0 x 2.5          | *.12    | .09   | .07   |       |
| 2080366  | RD16ZU-153M  | PDC   | .015μF  | 50        | 3.7 x 1.8 x 3.0 x 5.1          | *.05    | .04   | .03   |       |
| 57621    | MD.047       | ♦     | .047μF  | 50        | 2.5 x 2.5 x 3.0 x 2.5          | *.12    | .09   | .07   |       |
| 25523    | MD.1         | ♦     | .1μF    | 50        | 6.0 x 2.0 x 4.0 x 5.1          | *.08    | .06   | .045  |       |
| 544868   | SR205E104MAA | JVP   | .1μF    | 50        | 4.0 x 2.6 x 3.8 x 2.5          | *.10    | .07   | .05   |       |
| 25525    | MD.1         | JVP   | .1μF    | 50        | 3.4 x 2.2 x 3.6 x 5.1          | *.11    | .08   | .06   |       |
| 25540    | MD.22        | ♦     | .22μF   | 50        | 6.0 x 2.0 x 4.5 x 5.1          | *.15    | .12   | .09   |       |
| 25541    | MD.22+       | JVP   | .22μF   | 50        | 6.0 x 2.0 x 4.5 x 2.5          | *.19    | .15   | .12   |       |
| 138237   | MD.33        | ♦     | .33μF   | 50        | 6.0 x 2.0 x 8.0 x 5.1          | *.14    | .11   | .08   |       |
| 544930   | SR215E334MAA | JVP   | .33μF   | 50        | 3.8 x 2.5 x 3.8 x 5.1          | *.12    | .09   | .07   |       |
| 25558    | MD.47        | ♦     | .47μF   | 50        | 4.5 x 2.5 x 4.5 x 5.1          | *.17    | .14   | .11   |       |
| 81509    | MD1          | ♦     | 1μF     | 50        | 6.0 x 3.0 x 7.0 x 5.1          | .35     | .29   | .22   | .17   |
| 544956   | SR305E105MAA | JVP   | 1μF     | 50        | 3.8 x 2.5 x 3.8 x 5.1          | .39     | .32   | .25   | .19   |

Note: Above case sizes may have ± tolerances

\*Capacitor dimensions and styles may vary

\*AVX Radial Ceramic Capacitors — Enter Web Code XDE

\*Prosperity Radial Ceramic Capacitors — Enter Web Code CMC

### X7R Series (±10%)

\* Order in multiples of 10

| Part No. | Product No.   | *Mfr. | Value  | Volt. (V) | Size (mm)*<br>W x T x H x L.S. | Pricing |       |       |       |      |
|----------|---------------|-------|--------|-----------|--------------------------------|---------|-------|-------|-------|------|
|          |               |       |        |           |                                | 1       | 10    | 100   | 1000  | 5000 |
| 332583   | MOC100/100    | JVP   | 100pF  | 100       | 5.0x5.0x3.0x2.5                | *.12    | \$.09 | \$.07 | \$.05 |      |
| 332612   | MOC470/100    | JVP   | 470pF  | 100       | 5.0x5.0x3.0x2.5                | .19     | .15   | .12   | .09   |      |
| 544825   | SR151C102KAA  | JVP   | 1000pF | 100       | 3.8x2.5x3.8x5.1                | .09     | .07   | .05   | .04   |      |
| 544833   | SR151C103KAA  | JVP   | .01μF  | 100       | 3.8x2.5x3.8x5.1                | .10     | .07   | .05   | .035  |      |
| 597281   | SR211C103KAA  | JVP   | .01μF  | 100       | 3.8x2.5x3.8x5.1                | .09     | .07   | .05   | .04   |      |
| 332647   | MOC10000/100  | JVP   | .01μF  | 100       | 5.0x5.0x3.0x2.5                | .12     | .09   | .07   | .06   |      |
| 332655   | MOC22000/100  | JVP   | .022μF | 100       | 5.0x5.0x3.0x2.5                | .09     | .07   | .05   | .04   |      |
| 544892   | SR211C223KAA  | JVP   | .022μF | 100       | 3.8x2.5x3.8x5.1                | .14     | .10   | .08   | .06   |      |
| 544905   | SR211C333KAA  | JVP   | .033μF | 100       | 3.8x2.5x3.8x5.1                | .15     | .12   | .09   | .07   |      |
| 544913   | SR211C473KAA  | JVP   | .047μF | 100       | 3.8x2.5x3.8x5.1                | .29     | .22   | .17   | .14   | .11  |
| 544921   | SR215C104KAA  | JVP   | .1μF   | 50        | 3.8x2.5x3.8x5.1                | .14     | .11   | .08   | .06   |      |
| 544884   | SR211C104KAA  | JVP   | .1μF   | 100       | 3.8x2.5x3.8x5.1                | .15     | .12   | .09   | .08   |      |
| 332672   | MOC100000/100 | JVP   | .1μF   | 100       | 5.0x5.0x3.0x2.5                | .15     | .12   | .09   | .08   |      |
| 544948   | SR305C474KAA  | JVP   | .47μF  | 50        | 3.8x2.5x3.8x5.1                | .45     | .35   | .29   | .22   | .17  |

† ±20%

Note: Above case sizes may have ± tolerances

\*Capacitor dimensions and styles may vary

See page 151 for LCR Meters that measure resistance, capacitance and inductance.

## Metallized Polyester Film Mylar Capacitors (±10%)

- Non-inductive construction
- Operating temp. range: -40°C to +85°C
- Dissipation factor: 0.01 (at 1kHz)
- Dielectric strength: 150% of rated volt. for 5 sec.



\*Web Code: RAD

\* Order in multiples of 10

JAMECO ValuePro

## Ceramic Trimmer Capacitors

\*Web Code: PAT

8mm (.315")

- Turning torque: 40–200 g-cm
- Operating temp. range: -55°C ~ +85°C
- Insulation resis.: 10MΩ min. @ 250VDC
- Withstand volt.: 550VDC
- Working volt.: 250VDC
- Q Factor @ 1MHz: >300

| Part No. | Capacitance Range (pF) | Color Code | 1     | 10    | 100   | 1000  |
|----------|------------------------|------------|-------|-------|-------|-------|
| 134818   | 3.5–13.0               | Ivory      | \$.49 | \$.39 | \$.29 | \$.19 |
| 32839    | 4.0–34.0               | Yellow     | 1.15  | .99   | .85   | .69   |
| 2077554  | 5.0–25.0               | Blue       | .69   | .55   | .45   | .35   |
| 32855    | 6.0–70                 | Nil        | .99   | .85   | .69   | .59   |
| 94449    | 8.5–100                | Purple     | .99   | .85   | .69   | .59   |
| 94466    | 8.5–120                | Nil        | .99   | .85   | .69   | .59   |

## Memory Back-Up Capacitors

Applications:

- Back-up on CMOS microcomputers, static RAM, DTSS (digital tuning systems)
- Memory back-up of remote controllers

Features:

- Small size vs. capacitance
- Voltage: 5.5VDC, 8VDC

\*Web Code: SAB



| Part No. | Cross Ref. No. | *Mfr. | Value (F) | Size (mm) L x T x Dia. | 1      | 10     | 100    |
|----------|----------------|-------|-----------|------------------------|--------|--------|--------|
| 2082409  | MBC.047/8      | ♦     | 0.047     | 13.7x 7.8 x 13.1       | \$2.49 | \$2.19 | \$1.95 |
| 142949   | MBC.22/5.5     | JVP   | 0.22      | 11.8 x 6.4 x 12.8      | 3.95   | 3.49   | 2.95   |
| 142957   | MBC1.0/5.5     | ♦     | 1.0       | N/A x 7.4 x 20.8       | 4.25   | 3.75   | 3.25   |
| 227811   | S5R5V105       | ♦     | 1.0       | 24.2 x 4.8 x 18.0      | 3.95   | 3.49   | 2.95   |

\* JVP = Jameco ValuePro | PDC = Prosperity Dielectric Co. | ♦ Manufacturer Varies

RoHS compliant product

+ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 197.

More SMT Capacitors Available Online  
Enter Web Code: SMT for Complete Listing!



# Motor, Metallized & Silver Mica Capacitors

JAMECO ValuePro

## Motor Capacitors

- Operating temp.: -25°C to +85°C
- Insulation resistance: >300MΩ
- Quick connect
- Metal or plastic shell and double welding sheet metal



### Motor Running Capacitors

| Part No. | Cross Ref. No. | Value | Volt (V) | Size D x H (mm) | 1      | 10     | 50     |
|----------|----------------|-------|----------|-----------------|--------|--------|--------|
| 332806   | MRC370V4       | 4μF   | 370      | 34 x 50         | \$1.49 | \$1.25 | \$1.09 |
| 332814   | MRC370V5       | 5μF   | 370      | 34 x 50         | 1.95   | 1.75   | 1.59   |
| 332822   | MRC370V7R5     | 7.5μF | 370      | 36 x 80         | 1.95   | 1.75   | 1.59   |
| 332831   | MRC370V10      | 10μF  | 370      | 42 x 80         | 2.95   | 2.69   | 2.39   |
| 332865   | MRC440V10      | 10μF  | 440      | 40 x 70         | 3.49   | 2.95   | 2.59   |

\*Web Code: MCS

### Motor Starting Capacitors

| 332697 | MSC125V21  | 21μF  | 125 | 37 x 70  | \$1.95 | \$1.59 | \$1.29 |
|--------|------------|-------|-----|----------|--------|--------|--------|
| 332777 | MSC250V30  | 30μF  | 250 | 37 x 70  | 2.59   | 2.35   | 1.95   |
| 332785 | MSC250V53  | 53μF  | 250 | 46 x 86  | 2.95   | 2.69   | 2.49   |
| 536585 | PSU10835A* | 108μF | 250 | 46 x 86  | 8.49   | 7.95   | 7.49   |
| 332700 | MSC125V124 | 124μF | 125 | 37 x 70  | 1.95   | 1.75   | 1.59   |
| 332718 | MSC125V161 | 161μF | 125 | 37 x 70  | 1.95   | 1.79   | 1.59   |
| 332726 | MSC125V189 | 189μF | 125 | 37 x 70  | 2.29   | 2.09   | 1.89   |
| 332734 | MSC125V216 | 216μF | 125 | 37 x 86  | 2.59   | 2.39   | 2.09   |
| 332742 | MSC125V270 | 270μF | 125 | 37 x 86  | 2.95   | 2.69   | 2.39   |
| 332751 | MSC125V590 | 590μF | 125 | 46 x 111 | 4.95   | 4.75   | 4.49   |

\* Mfr. is Cornell Dubilier

## Panasonic® Metallized Film Capacitors (±5%)

### V Series – Stacked

- Operating temp. range: -40°C to 85°C
- Low dissipation factor: 1% max.

\*Web Code: TAB

| Part No. | Mfr. Part No. | Value (μF) | Voltage | Dimensions (mm)<br>W x H x Th. x L.S. | 10     | 100    | 500   |
|----------|---------------|------------|---------|---------------------------------------|--------|--------|-------|
| 920510   | ECO-V1H104JL  | .1         | 50      | 7.3 x 4 x 5 x 5                       | \$1.15 | \$1.12 | \$0.9 |
| 920595   | ECO-V1H474JL  | .47        | 50      | 7.3 x 6 x 7.3 x 5                     | .22    | .17    | .14   |

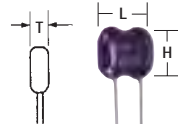
Order in multiples of 10

## Dipped Silver Mica Capacitors (±5%)

### Metallized Polyester Film

- Case type: DM15
- Lead space: 0.23"
- Operating temp. range: -55°C to +125°C
- Tolerance: ±5%

\*Web Code: HAB



| Part No. | Product No. | Value  | Volt. (V) | Size (mm) L x T x H* | 1      | 10     | 100    | 1000   |
|----------|-------------|--------|-----------|----------------------|--------|--------|--------|--------|
| 15991    | DM100       | 10pF   | 500       | 11 x 4 x 9           | \$0.49 | \$0.39 | \$0.35 | \$0.29 |
| 16037    | DM220       | 22pF   | 500       | 11 x 4 x 9           | .59    | .49    | .39    | .32    |
| 16096    | DM470       | 47pF   | 500       | 11 x 4 x 9           | .55    | .45    | .35    | .29    |
| 16002    | DM101       | 100pF  | 500       | 11 x 4 x 9           | .65    | .55    | .45    | .35    |
| 16088    | DM331       | 330pF  | 500       | 11 x 4 x 9           | .95    | .75    | .59    | .49    |
| 16109    | DM471       | 470pF  | 500       | 11 x 4 x 9           | 1.09   | .89    | .69    | .55    |
| 16011    | DM102       | 1000pF | 100       | 11 x 4 x 9           | 1.35   | 1.15   | .95    | .79    |

\* Capacitor dimensions and styles may vary

## Expanded Offering of Thousands of Prosperity SMT Capacitors at [www.Jameco.com](http://www.Jameco.com)

### SMT Capacitors

- Temperature range: -55°C to 125°C
- General purpose

#### MA Series:

\*MA0603 – 1 value — Web Code: ZAJ

\*MA0805 – 13 values — Web Code: ZAK

\*MA1206 – 13 values — Web Code: ZAL

\*MA1210 – 1 value — Web Code: ZAM

\*MA1812 – 1 value — Web Code: ZAN

| Qty.   | 10     | 100    | 1000   | 4000   |
|--------|--------|--------|--------|--------|
| MA0603 | \$0.05 | \$0.03 | \$0.02 | \$0.01 |
| MA0805 | .15    | .12    | .07    | .05    |
| MA1206 | .10    | .06    | .05    | .04    |
| MA1210 | .05    | .03    | .02    | .01    |
| MA1812 | .05    | .03    | .02    | .01    |
| RD15   | .09    | .07    | .06    | .04    |
| RD16   | .05    | .04    | .03    | .02    |

#### RD Series:

\*RD15 – 11 values — Web Code: ZAO

\*RD16 – 1 value — Web Code: ZAP

For Passive Component Testers See Page 153

## SMD Capacitors

JAMECO ValuePro

## Aluminum Electrolytic Capacitors

Operating Temp. Range: -55°C to +105°C



Leakage current (20°C) after 2 minutes .01CV or 3μA

\* Order in multiples of 10

| Part No. | Nichicon Cross Ref No. | Value (μF) | Voltage (V) | Dia. (mm) | 1 | 10     | 100    | 500    |
|----------|------------------------|------------|-------------|-----------|---|--------|--------|--------|
| 610431   | UWT1H0R1MCL1GB         | 0.1        | 50          | 4.0       | * | \$0.09 | \$0.07 | \$0.05 |
| 610423   | UWT1H010MCL2GB         | 1.0        | 50          | 4.0       | * | .12    | .09    | .07    |
| 608631   | UUD1H010MCL1GS         | 1.0†       | 50          | 4.0       | * | .15    | .12    | .09    |
| 610634   | UWT1V2R2MCL2GB         | 2.2        | 35          | 4.0       | * | .09    | .07    | .05    |
| 608665   | UUD1H2R2MCL1GS         | 2.2†       | 50          | 4.0       | * | .19    | .15    | .12    |
| 608681   | UUD1H3R3MCL1GS         | 3.3†       | 50          | 4.0       | * | .15    | .12    | .09    |
| 608788   | UUD1V4R7MCL1GS         | 4.7†       | 35          | 4.0       | * | .15    | .12    | .09    |
| 608702   | UUD1H4R7MCL1GS         | 4.7†       | 50          | 4.0       | * | .19    | .12    | .10    |
| 115351   | RV2-166V100MR*         | 10         | 16          | 4.0       | * | .12    | .09    | .07    |
| 610108   | UWT0G220MCL1GB         | 22         | 4.0         | 4.0       | * | .09    | .05    | .04    |
| 608489   | UUD1A220MCL1GS         | 22†        | 10          | 4.0       | * | .15    | .12    | .09    |
| 610239   | UWT1A220MCL1GB         | 22         | 10          | 5.0       | * | .09    | .07    | .05    |
| 610474   | UWT1H220MCL1GB         | 22         | 50          | 6.3       | * | .22    | .15    | .13    |
| 610183   | UWT0J330MCL1GB         | 33         | 6.3         | 4.0       | * | .12    | .09    | .07    |
| 608585   | UUD1E330MCL1GS         | 33†        | 25          | 6.3       | * | .15    | .12    | .09    |

\* Operating temperature: -40°C to +85°C † Low impedance

\*Web Code: BCE

\* Order in multiples of 10

| Part No. | Nichicon Cross Ref No. | Value (μF) | Voltage (V) | Dia. (mm) | 1   | 10     | 100   | 500   |
|----------|------------------------|------------|-------------|-----------|-----|--------|-------|-------|
| 610335   | UWT1C470MCL1GB         | 47         | 16          | 6.3       | *   | \$1.12 | \$0.9 | \$0.7 |
| 610386   | UWT1E470MCL1GB         | 47         | 25          | 6.3       | .29 | .22    | .15   | .13   |
| 608796   | UUD1V680MCL1GS         | 68†        | 35          | 6.3       | .29 | .25    | .15   | .12   |
| 608711   | UUD1V680MCL1GS         | 68†        | 50          | 8.0       | .39 | .29    | .19   | .17   |
| 610765   | UWX1A101MCL1GB         | 100*       | 10          | 6.3       | *   | .09    | .05   | .04   |
| 608462   | UUD1A101MCL1GS         | 100†       | 10          | 6.3       | *   | .19    | .15   | .12   |
| 608569   | UUD1E101MCL1GS         | 100†       | 25          | 6.3       | .35 | .25    | .15   | .12   |
| 610301   | UWT1C221MCL1GB         | 220        | 16          | 6.3       | *   | .15    | .12   | .09   |
| 610482   | UWT1H221MCL1GS         | 220        | 50          | 10.0      | .49 | .39    | .29   | .25   |
| 610378   | UWT1E33MCL1GS          | 330        | 25          | 8.0       | .29 | .25    | .19   | .15   |
| 608614   | UUD1E471MCL1GS         | 470†       | 25          | 10.0      | .29 | .25    | .19   | .17   |
| 610221   | UWT0J681MCL1GS         | 680        | 6.3         | 8.0       | .35 | .29    | .25   | .19   |
| 608471   | UUD1A102MCL1GS         | 1000†      | 10          | 10.0      | .39 | .29    | .25   | .19   |
| 192989   | SE1000/16              | 1000       | 16          | 10.0      | .39 | .29    | .22   | .19   |
| 610159   | UUD0J152MCL1GS         | 1500†      | 6.3         | 10.0      | .49 | .39    | .32   | .25   |

## Resin Molded Solid Tantalum Chip Capacitors (±20%)

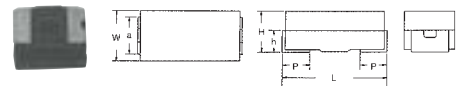
\* Order in multiples of 10

\*Web Code: WAE

| Part No. | *Mfr. | Capacitance | Case Size | Volt. | 1   | 10     | 100    | 500    |
|----------|-------|-------------|-----------|-------|-----|--------|--------|--------|
| 86933    | JVP   | 1μF         | A 16      | 16    | *   | \$0.09 | \$0.05 | \$0.04 |
| 87020    | ♦     | 10μF        | B 10      | 10    | *   | .09    | .07    | .06    |
| 87038    | ♦     | 10μF        | C 16      | 16    | *   | .19    | .12    | .10    |
| 87101    | JVP   | 47μF        | D 16      | 16    | .35 | .25    | .19    | .15    |
| 87118    | ♦     | 100μF       | D 10      | 10    | .49 | .35    | .25    | .22    |

### Case Size (Dimensions in mm)

| EIA Case Code | L ±0.2 | W ±0.2 | H ±0.2 | P ±0.3 | a ±0.2 | h(min) |
|---------------|--------|--------|--------|--------|--------|--------|
| A (3216-18)   | 3.2    | 1.6    | 1.7    | 0.8    | 1.2    | 0.7    |
| B (3528-21)   | 3.5    | 2.8    | 1.9    | 0.8    | 2.2    | 0.7    |
| C (6032-28)   | 6.0    | 3.2    | 2.6    | 1.3    | 2.2    | 1.0    |
| D (7343-31)   | 7.3    | 4.3    | 2.9    | 1.3    | 2.4    | 1.0    |



\* JVP = Jameco ValuePro ♦ Manufacturer Varies

Resin Molded Solid Tantalum Chip Capacitors continued on next page

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

| 3 LEVELS OF SAVINGS |
|---------------------|
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| HOUSE BRANDS        |
| FACTORY OVERRUN     |

Order by Phone 24/7 at 1-800-831-4242 or Online at [www.Jameco.com](http://www.Jameco.com)

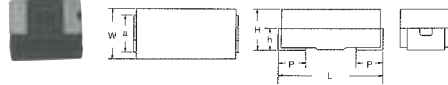
# SMD Molded Tantalum & Ceramic Chip Capacitors

| 3 LEVELS OF SAVINGS |              |                 |
|---------------------|--------------|-----------------|
| NAME BRANDS         | HOUSE BRANDS | FACTORY OVERRUN |

JAMECO ValuePro

## Resin Molded Solid Tantalum Chip Capacitors (±10%)

\* Web Code: WAE



Case Size (Dimensions in mm)

| EIA Case Code | L ±0.2 | W ±0.2 | H ±0.2 | P ±0.3 | a ±0.2 | h(min) |
|---------------|--------|--------|--------|--------|--------|--------|
| A (3216-18)   | 3.2    | 1.6    | 1.7    | 0.8    | 1.2    | 0.7    |
| B (3528-21)   | 3.5    | 2.8    | 1.9    | 0.8    | 2.2    | 0.7    |
| C (6032-38)   | 6.0    | 3.2    | 2.6    | 1.3    | 2.2    | 1.0    |
| D (7343-31)   | 7.3    | 4.3    | 2.9    | 1.3    | 2.4    | 1.0    |

\* Order in multiples of 10

| Part No. | Value (µF) | *Low ESR | Case Size | Volt. | 1 | 10     | 100    | 500    |
|----------|------------|----------|-----------|-------|---|--------|--------|--------|
| 544999   | 0.1µF      | ✓        | A         | 20    | * | \$ .10 | \$ .05 | \$ .04 |
| 544964   | 0.1µF      | ✓        | A         | 35    | * | .12    | .06    | .05    |
| 544972   | 0.1µF      | ✓        | A         | 50    | * | .12    | .08    | .07    |
| 544981   | 1µF        | ✓        | A         | 16    | * | .10    | .05    | .04    |
| 545001   | 1µF        | ✓        | A         | 25    | * | .10    | .05    | .04    |
| 597290   | 1µF        | ✓        | A         | 35    | * | .12    | .10    | .09    |
| 545043   | 2.2µF      | ✓        | A         | 16    | * | .12    | .06    | .05    |
| 545051   | 3.3µF      | ✓        | A         | 16    | * | .10    | .06    | .05    |
| 545060   | 3.3µF      | ✓        | A         | 20    | * | .15    | .09    | .07    |

\* Order in multiples of 10

| Part No. | Value (µF) | *Low ESR | Case Size | Volt. | 1   | 10     | 100    | 500    |
|----------|------------|----------|-----------|-------|-----|--------|--------|--------|
| 597329   | 4.7µF      | ✓        | A         | 10    | *   | \$ .17 | \$ .15 | \$ .12 |
| 545086   | 6.8µF      | ✓        | A         | 10    | *   | .15    | .09    | .07    |
| 545027   | 10µF       | ✓        | A         | 6.3   | *   | .12    | .05    | .04    |
| 597311   | 10µF       | ✓        | A         | 6.3   | *   | .17    | .15    | .13    |
| 597302   | 10µF       | ✓        | A         | 10    | *   | .12    | .06    | .05    |
| 545115   | 15µF       | ✓        | A         | 10    | *   | .17    | .15    | .12    |
| 545131   | 1µF        | ✓        | B         | 35    | *   | .15    | .10    | .08    |
| 545158   | 2.2µF      | ✓        | B         | 35    | *   | .15    | .09    | .08    |
| 545174   | 4.7µF      | ✓        | B         | 16    | *   | .15    | .07    | .05    |
| 545140   | 10µF       | ✓        | B         | 16    | *   | .19    | .10    | .07    |
| 597337   | 10µF       | ✓        | B         | 16    | *   | .19    | .15    | .13    |
| 545166   | 22µF       | ✓        | B         | 16    | *   | .19    | .13    | .11    |
| 545203   | 47µF       | ✓        | B         | 10    | .35 | .25    | .22    | .19    |
| 545254   | 2.2µF      | ✓        | C         | 35    | *   | .15    | .09    | .07    |
| 545262   | 3.3µF      | ✓        | C         | 35    | *   | .19    | .16    | .13    |
| 545220   | 10µF       | ✓        | C         | 20    | *   | .15    | .12    | .10    |
| 545289   | 10µF       | ✓        | C         | 25    | *   | .16    | .14    | .12    |
| 545238   | 10µF       | ✓        | C         | 35    | .45 | .35    | .25    | .22    |
| 545300   | 22µF       | ✓        | C         | 16    | *   | .19    | .15    | .12    |

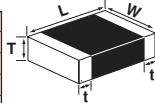
| Part No. | Value (µF) | *Low ESR | Case Size | Volt. | 1      | 10     | 100    | 500    |
|----------|------------|----------|-----------|-------|--------|--------|--------|--------|
| 597353   | 4.7µF      | ✓        | C         | 16    | \$ .45 | \$ .35 | \$ .32 | \$ .29 |
| 545297   | 100µF      | ✓        | C         | 10    | .45    | .35    | .29    | .25    |
| 545385   | 4.7µF      | ✓        | D         | 35    | .45    | .39    | .35    | .29    |
| 545414   | 6.8µF      | ✓        | D         | 50    | .45    | .39    | .35    | .29    |
| 545326   | 10µF       | ✓        | D         | 35    | .35    | .25    | .21    | .19    |
| 545334   | 15µF       | ✓        | D         | 35    | .45    | .35    | .25    | .22    |
| 597388   | 15µF       | ✓        | D         | 35    | .45    | .39    | .35    | .29    |
| 545342   | 22µF       | ✓        | D         | 25    | .35    | .25    | .21    | .19    |
| 597396   | 22µF       | ✓        | D         | 25    | .45    | .39    | .33    | .29    |
| 545351   | 22µF       | ✓        | D         | 35    | .95    | .89    | .79    | .65    |
| 597433   | 22µF       | ✓        | D         | 35    | 1.19   | .99    | .89    | .75    |
| 545545   | 33µF       | ✓        | D         | 25    | 1.19   | .99    | .89    | .75    |
| 545393   | 47µF       | ✓        | D         | 16    | .39    | .29    | .23    | .19    |
| 597417   | 47µF       | ✓        | D         | 16    | .45    | .39    | .35    | .29    |
| 545406   | 47µF       | ✓        | D         | 25    | .79    | .69    | .59    | .49    |
| 545553   | 68µF       | ✓        | D         | 20    | 1.19   | .99    | .89    | .75    |
| 545422   | 100µF      | ✓        | D         | 10    | .45    | .35    | .29    | .25    |
| 545473   | 150µF      | ✓        | D         | 10    | .65    | .49    | .45    | .39    |
| 545369   | 220µF      | ✓        | D         | 10    | .75    | .69    | .55    | .45    |
| 597441   | 220µF      | ✓        | D         | 10    | .95    | .89    | .79    | .69    |

## Multilayer Ceramic Chip Capacitors

\* Web Code: MCD

SMT Case Dimensions (mm)

|   | 0402 | 0603 | 0805  | 1206 | 1210 | 1812 |
|---|------|------|-------|------|------|------|
| L | 1.0  | 1.6  | 2.0   | 3.2  | 3.2  | 4.5  |
| W | 0.5  | 0.81 | 1.25  | 1.6  | 2.5  | 3.2  |
| T | 1.02 | 1.02 | 0.065 | 1.55 | 1.02 | 1.52 |
| t | 0.25 | 0.35 | 0.25  | 0.5  | 0.5  | 0.61 |



\* Order in multiples of 10

| Part No. | *Mfr. | Case | Value  | Volt. | Tolerance | Temp. | 1 | 10     | 100    | 1000   |
|----------|-------|------|--------|-------|-----------|-------|---|--------|--------|--------|
| 646135   | ✦     | 0402 | 47pF   | 50    | 5         | NPO   | * | \$ .05 | \$ .02 | \$ .01 |
| 646178   | ✦     | 0402 | 100pF  | 50    | 5         | NPO   | * | .05    | .02    | .01    |
| 543742   | JVP   | 0402 | 2200pF | 50    | 10        | NPO   | * | .06    | .04    | .02    |
| 543777   | JVP   | 0402 | 0.1µF  | 16    | +80/-20   | Y5V   | * | .09    | .04    | .03    |
| 646910   | ✦     | 0603 | 100pF  | 50    | 5         | NPO   | * | .05    | .04    | .03    |
| 544008   | JVP   | 0603 | 330pF  | 50    | 5         | NPO   | * | .08    | .04    | .03    |
| 649483   | ✦     | 0603 | 1000pF | 50    | 10        | X7R   | * | .05    | .02    | .01    |
| 649598   | ✦     | 0603 | 8200pF | 50    | 10        | X7R   | * | .06    | .04    | .02    |
| 735322   | AVX   | 0603 | 0.01µF | 50    | 5         | X7R   | * | .08    | .05    | .03    |
| 1929031  | AVX   | 0603 | 0.1µF  | 25    | 10        | X7R   | * | .12    | .07    | .05    |
| 649766   | ✦     | 0603 | 2.2µF  | 6.3   | 10        | X5R   | * | .15    | .12    | .09    |
| 649774   | ✦     | 0603 | 4.7µF  | 6.3   | 10        | X5R   | * | .19    | .15    | .12    |
| 650020   | ✦     | 0805 | 27pF   | 50    | 5         | NPO   | * | .05    | .02    | .01    |
| 736026   | AVX   | 0805 | 30pF   | 50    | 5         | NPO   | * | .07    | .04    | .03    |
| 650097   | ✦     | 0805 | 100pF  | 50    | 5         | NPO   | * | .05    | .02    | .01    |
| 650126   | ✦     | 0805 | 180pF  | 50    | 5         | NPO   | * | .05    | .02    | .01    |
| 1566882  | ✦     | 0805 | 220pF  | 100   | 5         | NPO   | * | .05    | .02    | .01    |
| 650193   | ✦     | 0805 | 680pF  | 50    | 5         | NPO   | * | .06    | .04    | .02    |
| 544323   | JVP   | 0805 | 1000pF | 50    | 10        | X7R   | * | .05    | .02    | .01    |
| 2079541  | PDC   | 0805 | 1200pF | 50    | 5         | NPO   | * | .15    | .12    | .07    |
| 544278   | ✦     | 0805 | 2200pF | 50    | 5         | NPO   | * | .15    | .12    | .09    |
| 544331   | JVP   | 0805 | 0.01µF | 50    | 10        | X7R   | * | .05    | .02    | .01    |
| 87372    | JVP   | 0805 | 0.1µF  | 25    | 10        | X7R   | * | .05    | .02    | .01    |
| 87177    | JVP   | 0805 | 0.1µF  | 50    | 20        | Z5U   | * | .05    | .02    | .01    |
| 650484   | ✦     | 0805 | 0.33µF | 25    | 10        | X5R   | * | .15    | .12    | .09    |
| 650492   | ✦     | 0805 | 0.47µF | 25    | 10        | X5R   | * | .06    | .05    | .04    |
| 650687   | ✦     | 0805 | 1.0µF  | 16    | +80/-20   | Y5V   | * | .12    | .07    | .05    |
| 650505   | ✦     | 0805 | 1.0µF  | 25    | 10        | X5R   | * | .15    | .12    | .09    |
| 544489   | ✦     | 0805 | 2.2µF  | 10    | 10        | X5R   | * | .15    | .12    | .09    |

\* Order in multiples of 10

| Part No. | *Mfr. | Case | Value  | Volt. | Tolerance | Temp. | 1   | 10     | 100    | 1000   |
|----------|-------|------|--------|-------|-----------|-------|-----|--------|--------|--------|
| 650521   | ✦     | 0805 | 2.2µF  | 16    | 10        | X5R   | *   | \$ .15 | \$ .12 | \$ .09 |
| 650556   | ✦     | 0805 | 3.3µF  | 10    | 10        | X5R   | *   | .15    | .12    | .07    |
| 544420   | JVP   | 0805 | 4.7µF  | 6.3   | 10        | X5R   | *   | .14    | .11    | .09    |
| 650581   | ✦     | 0805 | 10µF   | 6.3   | 10        | X5R   | *   | .13    | .10    | .08    |
| 1858797  | MUR   | 0805 | 10µF   | 16    | +80/-20   | Y5V   | *   | .12    | .07    | .05    |
| 544497   | JVP   | 1206 | 10pF   | 100   | 5         | NPO   | *   | .12    | .07    | .05    |
| 544526   | JVP   | 1206 | 15pF   | 100   | 5         | NPO   | *   | .12    | .07    | .05    |
| 544534   | JVP   | 1206 | 22pF   | 100   | 5         | NPO   | *   | .12    | .07    | .05    |
| 544542   | JVP   | 1206 | 33pF   | 100   | 5         | NPO   | *   | .12    | .07    | .05    |
| 544569   | JVP   | 1206 | 47pF   | 100   | 5         | NPO   | *   | .15    | .12    | .09    |
| 650880   | ✦     | 1206 | 68pF   | 50    | 5         | NPO   | *   | .12    | .07    | .05    |
| 544500   | JVP   | 1206 | 100pF  | 100   | 5         | NPO   | *   | .06    | .04    | .02    |
| 544551   | JVP   | 1206 | 330pF  | 100   | 5         | NPO   | *   | .10    | .07    | .05    |
| 544577   | JVP   | 1206 | 680pF  | 100   | 5         | NPO   | *   | .15    | .12    | .09    |
| 2079795  | PDC   | 1206 | 1000pF | 50    | ±20       | NPO   | *   | .10    | .06    | .05    |
| 544681   | JVP   | 1206 | 1000pF | 50    | 5         | NPO   | *   | .12    | .07    | .05    |
| 544518   | JVP   | 1206 | 1000pF | 100   | 5         | NPO   | *   | .15    | .12    | .09    |
| 651057   | ✦     | 1206 | 1800pF | 50    | 5         | NPO   | *   | .15    | .12    | .09    |
| 544690   | JVP   | 1206 | 2200pF | 50    | 5         | NPO   | *   | .15    | .12    | .09    |
| 651209   | ✦     | 1206 | 4700pF | 50    | 10        | X7R   | *   | .09    | .06    | .04    |
| 651102   | ✦     | 1206 | 4700pF | 50    | 5         | NPO   | *   | .15    | .12    | .09    |
| 651111   | ✦     | 1206 | 5600pF | 50    | 5         | NPO   | *   | .15    | .12    | .09    |
| 651129   | ✦     | 1206 | 0.01µF | 25    | 5         | NPO   | *   | .15    | .12    | .09    |
| 87329    | ✦     | 1206 | 0.01µF | 50    | 10        | X7R   | *   | .05    | .02    | .01    |
| 87388    | ✦     | 1206 | 0.1µF  | 50    | 10        | X7R   | *   | .09    | .07    | .06    |
| 651541   | ✦     | 1206 | 0.1µF  | 50    | +80/-20   | Y5V   | *   | .12    | .07    | .05    |
| 544606   | JVP   | 1206 | 0.1µF  | 100   | 10        | X7R   | *   | .12    | .07    | .05    |
| 544711   | JVP   | 1206 | 0.22µF | 50    | 10        | X7R   | *   | .12    | .07    | .05    |
| 651399   | ✦     | 1206 | 0.27µF | 50    | 10        | X7R   | *   | .12    | .09    | .07    |
| 544729   | JVP   | 1206 | 0.33µF | 50    | 10        | X7R   | *   | .15    | .12    | .07    |
| 544673   | JVP   | 1206 | 0.47µF | 25    | 10        | X7R   | *   | .15    | .12    | .07    |
| 651410   | ✦     | 1206 | 0.47µF | 50    | 10        | X7R   | *   | .15    | .12    | .09    |
| 87222    | JVP   | 1206 | 0.47µF | 50    | 20        | Z5U   | .29 | .22    | .17    | .14    |

Multilayer Ceramic Chip Capacitors continued on next page

\* AVX = AVX Corp. | JVP = Jameco ValuePro | MUR = Murata Electronics | PAN = Panasonic | PDC = Prosperity | ✦ Manufacturer Varies

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 197.

## Multilayer Ceramic Chip Capacitors (Continued)

\* Web Code: MCD

\* Order in multiples of 10

| Part No. | Mfr. | Case | Value  | Volt. | Tolerance | Temp. | 1   | 10    | 100   | 1000  |
|----------|------|------|--------|-------|-----------|-------|-----|-------|-------|-------|
| 651428   | ◆    | 1206 | 1.0µF  | 25    | 10        | X7R   | *   | \$.15 | \$.12 | \$.07 |
| 651479   | ◆    | 1206 | 2.2µF  | 16    | 10        | X5R   | *   | .13   | .10   | .07   |
| 651452   | ◆    | 1206 | 2.2µF  | 25    | 10        | X5R   | *   | .15   | .12   | .09   |
| 651508   | ◆    | 1206 | 4.7µF  | 10    | 10        | X5R   | *   | .19   | .15   | .12   |
| 651487   | ◆    | 1206 | 4.7µF  | 16    | 10        | X5R   | *   | .15   | .12   | .09   |
| 544745   | JVP  | 1206 | 4.7µF  | 16    | +80/-20   | Y5V   | *   | .15   | .12   | .09   |
| 651461   | ◆    | 1206 | 4.7µF  | 25    | 10        | X5R   | *   | .19   | .15   | .12   |
| 651532   | ◆    | 1206 | 10µF   | 6.3   | 10        | X5R   | *   | .19   | .17   | .15   |
| 651516   | ◆    | 1206 | 10µF   | 10    | 10        | X5R   | *   | .19   | .17   | .15   |
| 651495   | ◆    | 1206 | 10µF   | 16    | 10        | X5R   | .35 | .29   | .25   | .19   |
| 651524   | ◆    | 1206 | 22µF   | 6.3   | 10        | X5R   | .49 | .39   | .35   | .29   |
| 651612   | ◆    | 1210 | 0.1µF  | 50    | 10        | X7R   | *   | .15   | .12   | .09   |
| 544761   | JVP  | 1210 | 0.1µF  | 100   | 10        | X7R   | *   | .15   | .12   | .09   |
| 544788   | JVP  | 1210 | 0.22µF | 50    | 10        | X7R   | *   | .15   | .12   | .09   |
| 651647   | ◆    | 1210 | 0.33µF | 50    | 10        | X7R   | *   | .19   | .15   | .12   |
| 651655   | ◆    | 1210 | 0.47µF | 50    | 10        | X7R   | *   | .19   | .15   | .12   |

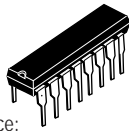
\* Order in multiples of 10

| Part No. | Mfr. | Case | Value | Volt. | Tolerance | Temp. | 1    | 10    | 100   | 1000  |
|----------|------|------|-------|-------|-----------|-------|------|-------|-------|-------|
| 651663   | ◆    | 1210 | 1.0µF | 50    | 10        | X7R   | *    | \$.19 | \$.17 | \$.15 |
| 651671   | ◆    | 1210 | 2.2µF | 25    | 10        | X7R   | .39  | .32   | .25   | .19   |
| 651680   | ◆    | 1210 | 4.7µF | 16    | 10        | X7R   | .49  | .39   | .32   | .25   |
| 651701   | ◆    | 1210 | 4.7µF | 25    | 10        | X7R   | .35  | .29   | .25   | .19   |
| 651698   | ◆    | 1210 | 10µF  | 10    | 10        | X7R   | .35  | .29   | .25   | .19   |
| 651786   | ◆    | 1210 | 10µF  | 10    | 10        | X5R   | .59  | .45   | .39   | .35   |
| 651735   | ◆    | 1210 | 10µF  | 16    | 10        | X5R   | .35  | .29   | .25   | .19   |
| 651719   | ◆    | 1210 | 10µF  | 25    | 10        | X5R   | .49  | .39   | .35   | .29   |
| 651751   | ◆    | 1210 | 22µF  | 6.3   | 10        | X5R   | .59  | .45   | .39   | .35   |
| 651794   | ◆    | 1210 | 22µF  | 10    | 10        | X5R   | .79  | .65   | .49   | .42   |
| 651743   | ◆    | 1210 | 22µF  | 16    | 10        | X5R   | .69  | .55   | .45   | .39   |
| 651760   | ◆    | 1210 | 47µF  | 6.3   | 10        | X5R   | 1.29 | 1.09  | .89   | .79   |
| 651778   | ◆    | 1210 | 100µF | 6.3   | 20        | X5R   | 1.75 | 1.49  | 1.25  | 1.09  |
| 651831   | ◆    | 1812 | 1µF   | 50    | 10        | X5R   | *    | .19   | .17   | .15   |
| 651858   | ◆    | 1812 | 22µF  | 10    | 10        | X5R   | .95  | .75   | .59   | .45   |

Passives

### 16-Pin (140mW/Resistor) ±2%

- Max. operating voltage: 100V
- Temp. coefficient: ±100ppm/°C
- Operating temp.: -55°C to +125°C
- Insulation res.: 10,000MΩ min.
- Lead solderability/solvent resistance: meets requirements of MIL-R-83401



## Dual-In-Line "DIP" Resistor Networks ±2% (G)

\* Web Code: GAP

Isolated

Pricing per each

| 1     | 10    | 100   | 1000  |
|-------|-------|-------|-------|
| \$.55 | \$.45 | \$.35 | \$.29 |

| Part No. | Ohms | Part No. | Ohms |
|----------|------|----------|------|
| 164005   | 33   | 108581   | 470  |
| 108556   | 100  | 108599   | 1.0k |
| 856095   | 120  | 108610   | 4.7k |
| 108564   | 220  | 108628   | 10k  |
| 108572   | 330  | 108644   | 100k |

Bussed

Order in multiples of 10

Pricing per each

| 1     | 10    | 100   | 1000 |
|-------|-------|-------|------|
| \$.45 | \$.35 | \$.29 |      |

| Part No. | Ohms |
|----------|------|
| 87601    | 1.0k |



## SIP Conformal Coated Resistor Networks ±2% (G) and ±5% (J)

- Rated power per resistor at 70°C: 125m w/ resistor
- Insulation res.: 10,000MΩ min. at 100V
- Low profile is compatible with DIPs

Blue Part No. = Limited Quantity Available

### 6-Pin Bussed (±2%)

| Part No. | Ohms | Part No. | Ohms | Part No. | Ohms | Part No. | Ohms |
|----------|------|----------|------|----------|------|----------|------|
| 267098   | 10   | 267821   | 330  | 268032   | 10k  | 268171   | 120k |
| 267670   | 22   | 267856   | 510  | 268040   | 12k  | 268189   | 150k |
| 267688   | 27   | 267864   | 560  | 268058   | 15k  | 268197   | 180k |
| 267696   | 33   | 267901   | 1.2k | 268066   | 18k  | 268200   | 220k |
| 267709   | 39   | 267910   | 1.5k | 268082   | 22k  | 268218   | 270k |
| 267717   | 47   | 267928   | 1.8k | 268091   | 27k  | 268226   | 330k |
| 267725   | 51   | 267936   | 2k   | 268104   | 33k  | 268234   | 390k |
| 267733   | 56   | 267944   | 2.2k | 268111   | 39k  | 268242   | 470k |
| 267741   | 68   | 267952   | 2.7k | 268120   | 47k  | 268251   | 560k |
| 267750   | 82   | 267979   | 3.9k | 268138   | 56k  | 268269   | 680k |
| 267768   | 100  | 268007   | 5.6k | 268146   | 68k  | 268277   | 820k |
| 267776   | 120  | 268015   | 6.8k | 268154   | 82k  | 268285   | 1M   |
| 267792   | 180  | 268023   | 8.2k | 268162   | 100k |          |      |

### 8-Pin Isolated (±2%)

| Part No. | Ohms | Part No. | Ohms | Part No. | Ohms | Part No. | Ohms |
|----------|------|----------|------|----------|------|----------|------|
| 2078021  | 22   | 2078039  | 47   | 2078055  | 75   | 2078071  | 1.5k |
| 2077984  | 27   | 2078047  | 68   | 2078135  | 270  | 2099956  | 15k  |

### 8-Pin Isolated (±5%)

| Part No. | Ohms | Part No. | Ohms | Part No. | Ohms | Part No. | Ohms |
|----------|------|----------|------|----------|------|----------|------|
| 2078119  | 33   | 2078127  | 47   | 2078098  | 560  | 2078012  | 4.7k |
| 2078101  | 39   | 2077992  | 510  | 2078004  | 2.2k | 2099964  | 680  |

- Operating temp.: -55°C to 125°C
- Resistor temp. coefficient: 200ppm/°C
- Common circuit

### 8-Pin Bussed (±2%)

| Part No. | Ohms | Part No. | Ohms | (G) Part No. | Ohms | Part No. | Ohms |
|----------|------|----------|------|--------------|------|----------|------|
| 267354   | 10   | 267604   | 820  | 97826        | 10k  | 276365   | 120k |
| 275872   | 27   | 276083   | 1k   | 276234       | 12k  | 276373   | 150k |
| 275881   | 33   | 276091   | 1.2k | 276242       | 15k  | 276381   | 180k |
| 275899   | 39   | 276104   | 1.5k | 276251       | 18k  | 276390   | 220k |
| 275901   | 47   | 276111   | 1.8k | 2077941      | 20k  | 276402   | 270k |
| 2077896  | 56   | 97797    | 2.2k | 276277       | 22k  | 276411   | 330k |
| 275936   | 68   | 2077968  | 2.7k | 276285       | 27k  | 276429   | 390k |
| 275944   | 82   | 276154   | 3.3k | 276293       | 33k  | 276437   | 470k |
| 275987   | 180  | 276163   | 3.9k | 276306       | 39k  | 276445   | 560k |
| 275995   | 220  | 276172   | 4.7k | 276315       | 47k  | 276453   | 680k |
| 276007   | 270  | 276189   | 5.1k | 276331       | 68k  | 276461   | 820k |
| 97762    | 470  | 276197   | 5.6k | 276349       | 82k  | 276470   | 1M   |
| 276040   | 510  | 276200   | 6.8k | 276358       | 100k |          |      |

### 8-Pin Bussed (±5%)

| Part No. | Ohms | Part No. | Ohms | Part No. | Ohms | Part No. | Ohms |
|----------|------|----------|------|----------|------|----------|------|
| 2077829  | 10   | 2077909  | 56   | 2077950  | 4.7k | 2077634  | 82k  |
| 2077853  | 22   | 2077837  | 150  | 2077802  | 8.2k | 2077773  | 150k |
| 2077861  | 33   | 2077845  | 1k   | 2077925  | 10k  |          |      |

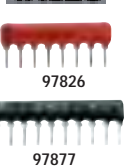
### 10-Pin Isolated (\* ±2; † ±5%)

| Part No. | Ohms | Part No. | Ohms | Part No. | Ohms  | Part No. | Ohms |
|----------|------|----------|------|----------|-------|----------|------|
| 97586    | 330* | 2078063  | 470† | 772537   | 4.7k* | 2078143  | 47k† |
| 97594    | 470* | 2077976  | 680* | 2078080  | 10k†  |          |      |

\* Order in multiples of 10

Pricing per each

|           | 1 | 10    | 100   | 500   |
|-----------|---|-------|-------|-------|
| 6-pin 2%  | * | \$.15 | \$.12 | \$.09 |
| 8-pin 2%  | * | .15   | .12   | .09   |
| 8-pin 5%  | * | .15   | .12   | .09   |
| 10-pin 2% | * | .17   | .15   | .12   |
| 10-pin 5% | * | .17   | .15   | .12   |



### 10-Pin Bussed (±2%)

| Part No. | Ohms | Part No. | Ohms | Part No. | Ohms | Part No. | Ohms |
|----------|------|----------|------|----------|------|----------|------|
| 267418   | 10   | 2077749  | 820  | 280920   | 6.8k | 98095    | 100k |
| 280583   | 22   | 97877    | 1k   | 280938   | 8.2k | 281084   | 120k |
| 280591   | 27   | 280816   | 1.2k | 24643    | 10k  | 281105   | 180k |
| 2077706  | 33   | 280823   | 1.5k | 280971   | 18k  | 281113   | 220k |
| 280612   | 39   | 280831   | 1.8k | 2077933  | 20k  | 281121   | 270k |
| 280621   | 47   | 2077870  | 2k   | 281025   | 39k  | 281130   | 330k |
| 280663   | 82   | 97893    | 2.2k | 281034   | 47k  | 281148   | 390k |
| 97834    | 100  | 773530   | 3.3k | 281041   | 56k  | 281172   | 680k |
| 280701   | 180  | 24660    | 4.7k | 281050   | 68k  | 281181   | 820k |
| 97851    | 330  | 280903   | 5.1k | 281068   | 82k  | 281199   | 1M   |
| 97869    | 470  | 2077757  | 5.6k |          |      |          |      |

### 10-Pin Bussed (±5%)

| Part No. | Ohms | Part No. | Ohms | Part No. | Ohms | Part No. | Ohms |
|----------|------|----------|------|----------|------|----------|------|
| 2077765  | 18   | 2077669  | 100  | 2077693  | 2k   | 2077722  | 47k  |
| 2077642  | 22   | 2077677  | 180  | 2077714  | 10k  | 2077731  | 100k |
| 2077651  | 33   | 2077888  | 470  |          |      |          |      |



## 5-Watt Wirewound Resistors (5%)

\* Web Code: TCH

### Single Value Resistor Pricing: 5-Watt Wirewound Resistors (±5%)

To order: Use part no. adjacent to Ω in chart below. Values may not be combined for quantity price breaks.

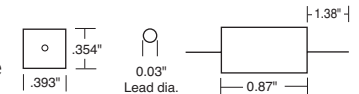
Pricing Per Resistor

| Specify Part No. & Resistor Value<br>(see Standard Resistor Values Chart below) | 1     | 10    | 100   | 500   | 2500  |
|---|-------|-------|-------|-------|-------|
|   | \$.39 | \$.32 | \$.25 | \$.19 | \$.15 |

| Part No. | Ohms | Part No. | Ohms | Part No. | Ohms | Part No. | Ohms | Part No. | Ohms | Part No. | Ohms |
|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|
| 659956   | 0.10 | 660130   | 1.0  | 660295   | 5.0  | 660480   | 27   | 660851   | 820  | 661036   | 10k  |
| 659964   | 0.15 | 660201   | 2.0  | 660375   | 10   | 660551   | 50   | 660877   | 1.0k |          |      |
| 660050   | 0.5  | 660279   | 4.0  | 660447   | 20   | 660623   | 100  | 661010   | 4.7k |          |      |

- Temp range: -55°C to +155°C
- Moisture resistant
- High temperature stability
- Exceptionally small, sturdy and reliable

Blue Part No. = Limited Quantity Available



\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above



Order by Phone 24/7 at 1-800-831-4242 or Online at [www.Jameco.com](http://www.Jameco.com)



# Carbon Film Resistors

| 3 LEVELS OF SAVINGS |              |                 |
|---------------------|--------------|-----------------|
| NAME BRANDS         | HOUSE BRANDS | FACTORY OVERRUN |

## 1/8-Watt Carbon Film Resistor (±5%) Assortment

| Part No. | Cross Ref. | Values | Description (see chart, right)  | 1       | 5      |
|----------|------------|--------|---|---------|--------|
| 108303   | ASST1830   | X      | 10 ea. of 24 values marked by X and 50 ea. of 6 values marked below by # (540 pcs.) | \$10.95 | \$8.95 |
| 108329   | CAB182R    | —      | 1/8 watt resistor component cabinet kit 30 values (540 pcs.) see page 42            | 25.95   | 22.95  |

### 1/8-Watt Resistor Assortment Values (Ohms)

|       |       |       |        |        |        |        |       |        |        |
|-------|-------|-------|--------|--------|--------|--------|-------|--------|--------|
| 10 X  | 150 X | 330 X | 680 X  | 2.0k X | 3.3k X | 5.6k X | 15k X | 33k X  | 470k X |
| 47 X  | 220 # | 390 X | 1.0k # | 2.2k X | 4.7k # | 6.8k X | 22k X | 47k X  | 1.0M X |
| 100 # | 270 X | 470 X | 1.5k X | 2.7k X | 5.1k X | 10k #  | 27k X | 100k # | 10M X  |

| 1/8-Watt Resistors sold in bags of 100     |        |        |        |       |
|--|--------|--------|--------|-------|
| Specify Part No. & Resistor Value          | 1      | 10     | 50     | 250   |
| (see Standard Resistor Values Chart below) | \$4.00 | \$2.00 | \$1.00 | \$7.5 |

| Part No. | Ohms | Part No. | Ohms | Part No. | Ohms | Part No. | Ohms |
|----------|------|----------|------|----------|------|----------|------|
| 107916   | 100  | 108097   | 5.1k | 1849591  | 10k  | 108214   | 100k |
| 1849639  | 1k   | 108118   | 6.8k | 108185   | 33k  |          |      |

Blue Part No. = Limited Quantity Available

## 1/4-Watt Carbon Film Resistors (±5%) RoHS

### Assortment Pricing: 1/4-Watt Carbon Film Resistors (±5%)

Assortments may not be combined for quantity price breaks

| Part No. | Cross Ref. No. | Values Included | Description (see chart below)                                     | Pricing |        |        |
|----------|----------------|-----------------|---|---------|--------|--------|
|          |                |                 |   | 1       | 5      | 50     |
| 10720    | ASST8-R        | —               | 5 ea. 70 values (350 pcs.) (every other value from 10Ω - 5.6MΩ)   | \$9.95  | \$8.49 | \$6.95 |
| 103166   | ASST30-R       | ●               | 10 ea. 24 values marked ● and 50 ea. 6 values marked X (540 pcs.) | 12.95   | 10.95  | 8.95   |
| 10664    | ASST27-R       | ▲               | 100 ea. 27 values marked (2,700 pcs.)                             | 24.95   | 21.95  | 19.95  |
| 81832    | N/A            | —               | 1/4-watt resistor cabinet kit 30 values, see pg 42 (540 pcs.)     | 27.95   | 25.95  | 23.95  |

### Single Value Resistor Pricing: 1/4-Watt Carbon Film Resistors (±5%)

To order: Use part number adjacent to ohms in chart below.  
Values may not be combined for quantity price breaks.

| Pricing per Resistor (Please order in increments of 100) |       |        |        |        |
|--|-------|--------|--------|--------|
| Specify Part No. & Resistor Value                        | 100   | 1000   | 5000   | 25000  |
| (see Standard Resistor Values Chart below)               | \$.02 | \$.011 | \$.009 | \$.007 |

| Part No. | Ohms | Part No. | Ohms | Part No. | Ohms | Part No. | Ohms | Part No. | Ohms | Part No. | Ohms | Part No. | Ohms | Part No. | Ohms |
|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|
| 690216   | 2.2  | 690427   | 15   | 690620   | 100  | 690822   | 680  | 691024   | 4.7k | 691227   | 33k  | 691420   | 220k | 691622   | 1.5M |
| 690224   | 2.4  | 690435   | 16   | 690638   | 110  | 690831   | 750  | 691032   | 5.1k | 691235   | 36k  | 691438   | 240k | 691631   | 1.6M |
| 690232   | 2.7  | 690443   | 18   | 690646   | 120  | 690849   | 820  | 691041   | 5.6k | 691243   | 39k  | 691446   | 270k | 691639   | 1.8M |
| 690241   | 3.0  | 690451   | 20   | 690654   | 130  | 690857   | 910  | 691059   | 6.2k | 691251   | 43k  | 691454   | 300k | 691649   | 2.0M |
| 690259   | 3.3  | 690460   | 22   | 690662   | 150  | 690865   | 1.0k | 691067   | 6.8k | 691260   | 47k  | 691462   | 330k | 691657   | 2.2M |
| 690267   | 3.6  | 690478   | 24   | 690671   | 160  | 690873   | 1.1k | 691075   | 7.5k | 691278   | 51k  | 691471   | 360k | 691665   | 2.4M |
| 690275   | 3.9  | 690486   | 27   | 690689   | 180  | 690881   | 1.2k | 691083   | 8.2k | 691286   | 56k  | 691489   | 390k | 691673   | 2.7M |
| 690283   | 4.3  | 690494   | 30   | 690697   | 200  | 690890   | 1.3k | 691091   | 9.1k | 691294   | 62k  | 691497   | 430k | 691681   | 3.0M |
| 690291   | 4.7  | 690507   | 33   | 690700   | 220  | 690902   | 1.5k | 691104   | 10k  | 691307   | 68k  | 691500   | 470k | 691690   | 3.3M |
| 690304   | 5.1  | 690515   | 36   | 690718   | 240  | 690911   | 1.6k | 691112   | 11k  | 691315   | 75k  | 691518   | 510k | 691702   | 3.6M |
| 690312   | 5.6  | 690523   | 39   | 690726   | 270  | 690929   | 1.8k | 691121   | 12k  | 691323   | 82k  | 691526   | 560k | 691711   | 3.9M |
| 690321   | 6.2  | 690531   | 43   | 690734   | 300  | 690937   | 2.0k | 691139   | 13k  | 691331   | 91k  | 691534   | 620k | 691737   | 4.7M |
| 690339   | 6.8  | 690540   | 47   | 690742   | 330  | 690945   | 2.2k | 691147   | 15k  | 691340   | 100k | 691542   | 680k | 691745   | 5.1M |
| 690347   | 7.5  | 690558   | 51   | 690751   | 360  | 690953   | 2.4k | 691155   | 16k  | 691358   | 110k | 691551   | 750k | 691753   | 5.6M |
| 690363   | 8.2  | 690566   | 56   | 690769   | 390  | 690961   | 2.7k | 691163   | 18k  | 691366   | 120k | 691569   | 820k | 691761   | 6.2M |
| 690371   | 9.1  | 690574   | 62   | 690777   | 430  | 690970   | 3.0k | 691171   | 20k  | 691374   | 130k | 691577   | 910k | 691770   | 6.8M |
| 690380   | 10   | 690582   | 68   | 690785   | 470  | 690988   | 3.3k | 691180   | 22k  | 691382   | 150k | 691585   | 1.0M | 691788   | 7.5M |
| 690398   | 11   | 690591   | 75   | 690793   | 510  | 690996   | 3.6k | 691198   | 24k  | 691391   | 160k | 691593   | 1.1M | 691796   | 8.2M |
| 690401   | 12   | 690603   | 82   | 690806   | 560  | 691008   | 3.9k | 691201   | 27k  | 691403   | 180k | 691606   | 1.2M | 691809   | 9.1M |
| 690419   | 13   | 690611   | 91   | 690814   | 620  | 691016   | 4.3k | 691219   | 30k  | 691411   | 200k | 691614   | 1.3M | 691817   | 10M  |

## 1/2-Watt Carbon Film Resistors (±5%)

### Assortment Pricing: 1/2-Watt Carbon Film Resistors (±5%)

Assortments may not be combined for quantity price breaks

| Part No. | Cross Ref. No. | Values Included | Description (see chart below)  | 1       | 5       |
|----------|----------------|-----------------|--|---------|---------|
| 107853   | ASST1230       | X               | 10 ea. of 24 values marked by X and 50 ea. of 6 values marked by # (540 pcs.)        | \$15.95 | \$14.25 |
| 107845   | ASST1227       | ✓               | 100 ea. of 27 values marked by ✓ (2,700 pcs.)  | 36.95   | 32.95   |
| 107837   | ASST1270       | N/A             | 5 ea. of 70 values (every other value from 10Ω - 5.6MΩ) (350 pcs.) (see chart below) | 9.95    | 8.95    |
| 107879   | CAB12R         | N/A             | 1/2-watt resistor component cabinet kit - 30 values (540 pcs.), see page 42          | 29.95   | 26.95   |

### Single Resistor Value Pricing: 1/2-Watt Carbon Film Resistors (±5%)

To order: Use part number adjacent to ohms in chart below.  
Values may not be combined for quantity price breaks.

| Pricing Per Resistor (Please order in increments of 100) |       |       |        |       |
|--|-------|-------|--------|-------|
| Specify Part No. & Resistor Value                        | 100   | 1000  | 5000   | 25000 |
| (see Standard Resistor Values Chart below)               | \$.03 | \$.02 | \$.014 | \$.01 |

| Part No.  | Ohms | Part No.  | Ohms | Part No.  | Ohms | Part No.  | Ohms | Part No.  | Ohms | Part No.  | Ohms | Part No.  | Ohms | Part No.  | Ohms |
|-----------|------|-----------|------|-----------|------|-----------|------|-----------|------|-----------|------|---|------|-----------|------|
| 659577    | 1.0  | 659892    | 22   | 661263  # | 100  | 661431    | 510  | 661589  X | 2.2k | 661773    | 12k  | 661976  | 82k  | 662194    | 680k |
| 659606    | 1.3  | 661124    | 27   | 661280    | 120  | 661440    | 560  | 661600  X | 2.7k | 661790  X | 15k  | 661992  #   | 100k | 662215    | 820k |
| 659614    | 1.5  | 661141    | 33   | 661301  X | 150  | 661466  X | 680  | 661618    | 3.0k | 661811    | 18k  | 662039  | 150k | 662231  X | 1.0M |
| 659631    | 1.8  | 661167    | 39   | 661327    | 180  | 661474    | 750  | 661634  X | 3.3k | 661829    | 20k  | 662071  | 220k | 662240    | 1.1M |
| 659657    | 2.2  | 661183  X | 47   | 661335    | 200  | 661482    | 820  | 661642    | 3.6k | 661837  X | 22k  | 662098  | 270k | 662291    | 1.8M |
| 659673    | 2.7  | 661191    | 51   | 661343  # | 220  | 661503  # | 1.0k | 661651    | 3.9k | 661845    | 24k  | 662119  | 330k | 662311    | 2.2M |
| 659737    | 4.7  | 661204    | 56   | 661351    | 240  | 661520    | 1.2k | 661677  # | 4.7k | 661853    | 27k  | 662135  | 390k | 662397    | 4.7M |
| 659809    | 9.1  | 661212    | 62   | 661360  X | 270  | 661538    | 1.3k | 661685  X | 5.1k | 661870  X | 33k  | 662151  X   | 470k | 662477  X | 10M  |
| 659817  X | 10   | 661221    | 68   | 661378    | 300  | 661546  X | 1.5k | 661693  X | 5.6k | 661896    | 39k  | <div>★ More 1/2W Resistors</div> <div>Web Code: SCH</div> |      |           |      |
| 659833    | 12   | 661239    | 75   | 661386  X | 330  | 661554    | 1.6k | 661714  X | 6.8k | 661917  X | 47k  |   |      |           |      |
| 659850    | 15   | 661247    | 82   | 661407  X | 390  | 661562    | 1.8k | 661731    | 8.2k | 661933    | 56k  |   |      |           |      |
| 659884    | 20   | 661255    | 91   | 661423  X | 470  | 661571  X | 2.0k | 661757  # | 10k  | 661950    | 68k  |   |      |           |      |
|           |      |           |      |           |      |           |      |           |      |           |      |   |      |           |      |

Blue Part No. = Limited Quantity Available

★ More 1/2W Resistors  
Web Code: SCH

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 197.

## 0805 (1/8W) Chip Resistor Assortment (±5%)

144 Values, 50 pcs. each

- 7,200 pieces total
- Max. overload volt.: 200V
- Case size (2 cases): 10.5"L x 6.7"W x 1.7"T
- Operating temp.: 70°C
- Weight: 1.9 lbs.
- Size (mm): 2.0L x 1.25W x 0.5Thick

Includes: Case with labels

| Part No. | Product No. | 1       | 5       | 25      |
|----------|-------------|---------|---------|---------|
| 172806   | 16-500..... | \$74.95 | \$64.95 | \$54.95 |

Resistance Value Chart:

|     |    |     |      |      |     |      |      |      |
|-----|----|-----|------|------|-----|------|------|------|
| 1.2 | 10 | 75  | 430  | 2.0k | 10k | 51k  | 270k | 2.2M |
| 1.6 | 16 | 85  | 470  | 2.2k | 11k | 56k  | 300k | 2.4M |
| 2.2 | 18 | 91  | 510  | 2.4k | 12k | 62k  | 360k | 2.7M |
| 2.4 | 20 | 110 | 560  | 2.7k | 13k | 68k  | 390k | 3.0M |
| 2.7 | 22 | 120 | 620  | 3.0k | 15k | 75k  | 430k | 3.3M |
| 3.0 | 24 | 130 | 680  | 3.3k | 16k | 82k  | 470k | 3.6M |
| 3.3 | 27 | 150 | 750  | 3.6k | 18k | 91k  | 510k | 3.9M |
| 4.3 | 30 | 160 | 820  | 3.9k | 20k | 100k | 560k | 4.3M |
| 4.7 | 33 | 180 | 910  | 4.3k | 22k | 110k | 620k | 4.7M |
| 5.1 | 39 | 200 | 1.0k | 4.7k | 24k | 120k | 750k | 5.1M |
| 5.6 | 43 | 220 | 1.1k | 5.6k | 27k | 150k | 820k | 5.6M |
| 6.2 | 47 | 240 | 1.2k | 6.2k | 30k | 160k | 910k | 6.8M |
| 6.8 | 51 | 270 | 1.3k | 6.8k | 33k | 180k | 1.0M | 7.5M |
| 7.5 | 56 | 300 | 1.5k | 7.5k | 36k | 200k | 1.6M | 8.2M |
| 8.2 | 62 | 360 | 1.6k | 8.2k | 39k | 220k | 1.8M | 9.1M |
| 9.1 | 68 | 390 | 1.8k | 9.1k | 43k | 240k | 2.0M | 10M  |

## 1206 (1/4W) Chip Resistor Assortment (±1%)

56 Values, 200 pcs. each; 11,200 pcs. Total

- Maximum working voltage: 200V
- Operating temp.: 70°C
- Temp. coefficient: ±100 ppm/°C
- Resistor dimensions (mm): 3.10L x 1.5 W x 0.55H
- Packaged 200 pc. strip



Value Chart (Ohms)

|      |       |       |       |      |
|------|-------|-------|-------|------|
| 10   | 121   | 1.5k  | 20k   | 243k |
| 12.1 | 150   | 2k    | 24.3k | 301k |
| 15   | 200   | 2.43k | 30.1k | 392k |
| 20   | 243   | 3.01k | 39.2k | 499k |
| 24.3 | 301   | 3.92k | 49.9k | 619k |
| 30.1 | 392   | 4.99k | 61.9k | 750k |
| 39.2 | 499   | 6.19k | 75k   | 909k |
| 49.9 | 619   | 7.5k  | 90.9k | 1M   |
| 61.9 | 750   | 9.09k | 100k  |      |
| 75   | 909   | 10k   | 121k  |      |
| 90.9 | 1k    | 12.1k | 150k  |      |
| 100  | 1.21k | 15k   | 200k  |      |

| Part No. | Cross Ref. No. | 1       | 5       | 25      |
|----------|----------------|---------|---------|---------|
| 156882   | SMR1206SB      | \$94.95 | \$84.95 | \$76.95 |

## YAGEO

### 1/4W 1% Metal Film Resistors

- Wire leads
- Color bands

MFR Series - 90 Values

\* Web Code: MFR

| Qty.  | 10     | 100    | 1000    | 5000   |
|-------|--------|--------|---------|--------|
| MF-25 | \$0.05 | \$0.02 | \$0.015 | \$0.01 |

### 1/16W 5% Chip Resistor Arrays

- Op. temp.: +55°C to 155°C
- 4-chip resistors

TC164 Series - 2 Values

\* Web Code: ZAH

YC164 Series - 4 Values

\* Web Code: ZAG

| Qty.   | 10     | 100    | 1000   | 5000   |
|--------|--------|--------|--------|--------|
| TC-164 | \$0.08 | \$0.06 | \$0.04 | \$0.02 |
| YC-164 | .08    | .06    | .04    | .02    |

## Expanded Offering of Thousands of Resistors at [www.Jameco.com](http://www.Jameco.com)

### RC Series

#### 1% SMD Thick Film Resistors

- Op. temp.: +55°C to 125°C
- General purpose

| Qty. | 10     | 100    | 1000    | 5000   |
|------|--------|--------|---------|--------|
| 0603 | \$0.05 | \$0.02 | \$0.015 | \$0.01 |
| 0805 | .06    | .024   | .014    | .005   |
| 1206 | .08    | .025   | .02     | .007   |
| 1210 | .08    | .025   | .02     | .007   |

### RC Series

#### 5% SMD Thick Film Resistors

- Op. temp.: +55°C to 125°C
- General purpose

| Qty. | 10     | 100     | 1000    | 5000    |
|------|--------|---------|---------|---------|
| 0603 | \$0.05 | \$0.018 | \$0.014 | \$0.003 |
| 0805 | .05    | .018    | .014    | .003    |
| 1206 | .08    | .025    | .02     | .007    |

1/10W 0603 - 16 Values

\* Web Code: ZAA

1/8W 0805 - 45 Values

\* Web Code: ZAB

1/4W 1206 - 27 Values

\* Web Code: ZAC

1/2W 1210 - 1 Value

\* Web Code: ZAQ

1/10W 0603 - 30 Values

\* Web Code: ZAD

1/8W 0805 - 63 Values

\* Web Code: ZAE

1/4W 1206 - 47 Values

\* Web Code: ZAF

## Series 766 SMT Chip Resistor Array

- ±2% or 0.5Ω whichever is greater
- Dielectric strength: 100VAC
- Max. operating volt.: 50V • Bussed
- Power: 1W @ 70°C



| Part No. | Product No.  | 1      | 10     | 100    |
|----------|--------------|--------|--------|--------|
| 1179284  | 745C101103JP | \$0.59 | \$0.55 | \$0.45 |



## 16mm Linear Taper Potentiometers (±20%)

\* Web Code: YAX

- Rated voltage: 200V
- Body diameter: 0.63"
- Shaft diameter: 0.250"
- Insulation resistance: >100MΩ @ 500VDC



### 1/8-Watt (±20%)

- Rotational angle: 300° (±5°) • Rotation life: 15k cycles

| Qty.  | 1      | 10     | 100    | 500    |
|-------|--------|--------|--------|--------|
| Price | \$1.39 | \$1.19 | \$1.05 | \$0.89 |

| Part No. | Manufacturer Part No. | Shaft Length | Ohms |
|----------|-----------------------|--------------|------|
| 286193   | RV16AF-10-20R1-B53    | 0.531"       | 5k   |
| 286206   | RV16AF-10-20R1-B14    | 0.531"       | 10k  |
| 286214   | RV16AF-10-20R1-B54    | 0.531"       | 50k  |
| 286222   | RV16AF-10-20R1-B55    | 0.531"       | 500k |

### 1/8-Watt with SPST Switch (±20%)

- Withstanding voltage: 500VAC for 1 min.
- Switch rating: 12VDC/1A

| Qty.  | 1      | 10     | 100    | 500    |
|-------|--------|--------|--------|--------|
| Price | \$2.15 | \$1.95 | \$1.75 | \$1.59 |

| Part No. | Manufacturer Part No. | Shaft Length | Ohms |
|----------|-----------------------|--------------|------|
| 286598   | RV16A03F-10-15R1-B1K  | 0.335"       | 1k   |
| 286620   | RV16A03F-10-15R1-B10K | 0.335"       | 10k  |

### 1/5-Watt with SPST Switch (±20%)

- Rotational angle: 270° (±5°) • Rotation life: 100k cycles

| Qty.  | 1      | 10     | 100    | 500    |
|-------|--------|--------|--------|--------|
| Price | \$1.95 | \$1.75 | \$1.59 | \$1.45 |

| Part No. | Manufacturer Part No. | Shaft Length | Ohms |
|----------|-----------------------|--------------|------|
| 286767   | RV16C-40-16F1-B5K     | 0.374"       | 5k   |
| 286791   | RV16C-40-16F1-B500K   | 0.374"       | 500k |

### RV4N Series (53C3)

- 2W @ 70°C ambient
- Shaft length: 0.875"
- Temp. range: -55°C to +120°C
- Mounting hole: 0.375"
- Max. panel thickness: 0.25"
- Includes: Mounting hardware



\* Web Code: JAE

| Qty.  | 1       | 10     | 50     | 100    |
|-------|---------|--------|--------|--------|
| Price | \$10.49 | \$9.25 | \$7.95 | \$6.95 |

## 2-Watt Linear Taper Potentiometers (±10%)

| Part No. | Military No. | Ohms | Part No. | Military No. | Ohms |
|----------|--------------|------|----------|--------------|------|
| 241568   | RV4NAYS0101A | 100  | 13952    | RV4NAYS0103A | 10k  |
| 241584   | RV4NAYS0251A | 250  | 241656   | RV4NAYS0203A | 20k  |
| 183610   | RV4NAYS0501A | 500  | 241664   | RV4NAYS0253A | 25k  |
| 13936    | RV4NAYS0102A | 1k   | 95417    | RV4NAYS0503A | 50k  |
| 241613   | RV4NAYS0202A | 2k   | 13979    | RV4NAYS0104A | 100k |
| 241621   | RV4NAYS0252A | 2.5k | 241681   | RV4NAYS0254A | 250k |
| 13995    | RV4NAYS0502A | 5k   | 241728   | RV4NAYS0105A | 1M   |



## 24mm Audio Taper 1/4-Watt (±20%)

- Body diameter: 0.945"
- Shaft diameter: 0.250"
- Terminal type: solder lugs
- Rotational angle: 300° (±5°)
- Insulation resistance: >100MΩ @ 500VDC
- Max. voltage: 250V



| Qty.  | 1      | 10     | 100    | 500    |
|-------|--------|--------|--------|--------|
| Price | \$1.49 | \$1.29 | \$1.09 | \$0.95 |

| Part No. | Manufacturer Part No. | Shaft Length | Ohms |
|----------|-----------------------|--------------|------|
| 255426   | RV24AF-10-15R1-A14    | 0.335"       | 10k  |
| 255434   | RV24AF-10-15R1-A54    | 0.335"       | 50k  |
| 255442   | RV24AF-10-15R1-A15    | 0.335"       | 100k |
| 255451   | RV24AF-10-15R1-A55    | 0.335"       | 500k |
| 255469   | RV24AF-10-15R1-A16    | 0.335"       | 1M   |



## 1/2-Watt Linear Taper (±10%)

- Temperature range: -55°C to +125°C
- Non-rotational key, Non-slotted shaft end
- Maximum panel thickness: 0.1875"
- Mounting hole: 0.3125"
- Shaft dia.: 0.25" • Shaft length: 0.50"



Includes: Mounting hardware

| Qty.  | 1      | 10     | 100    | 500    |
|-------|--------|--------|--------|--------|
| Price | \$1.09 | \$0.95 | \$0.79 | \$0.65 |

| Part No. | Cross Ref. | Ohms | Part No. | Cross Ref. | Ohms |
|----------|------------|------|----------|------------|------|
| 29050    | P1K        | 1k   | 29103    | P100K      | 100k |
| 29197    | P5K        | 5k   | 29066    | P1MEG      | 1M   |
| 29082    | P10K       | 10k  |          |            |      |

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above



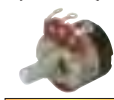
Order by Phone 24/7 at 1-800-831-4242 or Online at [www.Jameco.com](http://www.Jameco.com)

# Linear Taper, Wirewound & Cermet Potentiometers

3 LEVELS OF SAVINGS  
NAME BRANDS HOUSE BRANDS FACTORY OVERRUN

## 1/2-Watt 24mm Linear Taper with SPST Switch (±20%)

- Shaft diameter: 0.25"
- Maximum voltage: 500V
- Terminal type: solder lugs
- Switch rating: 125VAC, 1A
- Rotational angle: 300° (±5°)



\*Web Code: KBR

| Qty.  | 1      | 10     | 100    | 500    |
|-------|--------|--------|--------|--------|
| Price | \$1.95 | \$1.75 | \$1.49 | \$1.35 |

| Part No. | Manufacturer Part No.  | Shaft Length (L) | Ohms |
|----------|------------------------|------------------|------|
| 263768   | RV24A01F-10-15R1-B13   | 0.335"           | 1k   |
| 263792   | RV24A01F-10-15R1-B14   | 0.335"           | 10k  |
| 263813   | RV24A01F-10-15R1-B54   | 0.335"           | 50k  |
| 263822   | RV24A01F-10-15R1-B100K | 0.335"           | 100k |
| 263848   | RV24A01F-10-15R1-B55   | 0.335"           | 500k |



## 1/2-Watt 24mm Linear Taper (±20%)

- Rotational angle: 300° (±5°)
- Max. volt.: 500V • Shaft Dia.: 0.25"
- Withstanding voltage for 1 minute: 500VAC

\*Web Code: NBQ



| Qty.  | 1      | 10     | 100    | 500    |
|-------|--------|--------|--------|--------|
| Price | \$1.49 | \$1.29 | \$1.15 | \$0.99 |

| Part No. | Manufacturer Part No. | Shaft Length (L) | Ohms |
|----------|-----------------------|------------------|------|
| 255477   | RV24AF-10-15R1-B52    | 0.335"           | 500  |
| 255485   | RV24AF-10-15R1-B13    | 0.335"           | 1k   |
| 255493   | RV24AF-10-15R1-B23    | 0.335"           | 2k   |
| 255514   | RV24AF-10-15R1-B53    | 0.335"           | 5k   |
| 255522   | RV24AF-10-15R1-B14    | 0.335"           | 10k  |
| 255531   | RV24AF-10-15R1-BF4    | 0.335"           | 25k  |
| 255549   | RV24AF-10-15R1-B54    | 0.335"           | 50k  |
| 255557   | RV24AF-10-15R1-B15    | 0.335"           | 100k |
| 255565   | RV24AF-10-15R1-BF5    | 0.335"           | 250k |

| Part No. | Manufacturer Part No. | Shaft Length (L) | Ohms |
|----------|-----------------------|------------------|------|
| 255573   | RV24AF-10-15R1-B55    | 0.335"           | 500k |
| 255582   | RV24AF-10-15R1-B16    | 0.335"           | 1M   |
| 255600   | RV24AF-10-15R1-B26    | 0.335"           | 2M   |
| 264373   | RV24AF-10-20K-B52     | 0.531"           | 500  |
| 264382   | RV24AF-10-20K-B13     | 0.531"           | 1k   |
| 264400   | RV24AF-10-20K-B23     | 0.531"           | 2k   |
| 264402   | RV24AF-10-20K-B53     | 0.531"           | 5k   |
| 264429   | RV24AF-10-20K-B54     | 0.531"           | 50k  |
| 264437   | RV24AF-10-20K-B15     | 0.531"           | 100k |
| 264445   | RV24AF-10-20K-BF5     | 0.531"           | 250k |
| 264462   | RV24AF-10-20K-B16     | 0.531"           | 1M   |
| 255611   | RV24AF-10-40R1-B52    | 1.32"            | 500  |
| 255629   | RV24AF-10-40R1-B13    | 1.32"            | 1k   |
| 255662   | RV24AF-10-40R1-B14    | 1.32"            | 10k  |
| 255688   | RV24AF-10-40R1-B54    | 1.32"            | 50k  |
| 255696   | RV24AF-10-40R1-B15    | 1.32"            | 100k |

Blue Part No. = Limited Quantity Available

## 2 & 5-Watt Linear Taper Wirewound (±20%)

- Temp. range: -10°C to +70°C
- Non-rotational key

Includes: Mounting hardware  
2-Watt (±20%) • Length: 0.825"

- Shaft diameter: 0.25"
- Mounting hole: 0.375" • Base length: 0.25"

| Part No. | Cross Ref. No. | Ohms | 1      | 10     | 100    | 500    |
|----------|----------------|------|--------|--------|--------|--------|
| 123960   | PT1K           | 1k   | \$3.95 | \$3.49 | \$3.09 | \$2.69 |

### 5-Watt (±20%)

- Shaft length/diameter: 0.67"/0.23" (6mm)
- Mounting hole: 0.32"
- Maximum panel thickness: 0.1"

| Part No. | Cross Ref. No. | Ohms | 1      | 10     | 100    | 500    |
|----------|----------------|------|--------|--------|--------|--------|
| 140514   | PW5B100        | 100  | \$2.75 | \$2.49 | \$2.25 | \$1.75 |

## Bourns® 2-Watt 10-Turn Wirewound (±5%)

\*Web Code: JBE

- Insulation resis.: (500VDC) 1000MΩ min.
- Absolute min. resis.: 1Ω or 0.1% max.
- Operating temp. range: +1°C to +125°C

3540S-1 Series: 2W @ 70°C; metal  
3590S-1 Series: 2W @ 40°C; plastic  
3540S-1 Series: 2W @ 40°C; metal

| Part No. | Mfr. Part No. | Ohms | 1       | 10      | 50      |
|----------|---------------|------|---------|---------|---------|
| 183548   | 3540S-1-502L  | 5k   | \$26.95 | \$23.95 | \$21.95 |
| 855818   | 3590S-2-502L  | 5k   | 12.95   | 11.95   | 10.95   |
| 183521   | 3540S-1-103   | 10k  | 19.95   | 18.95   | 17.95   |
| 771121   | 3590S-1-103L  | 10k  | 12.95   | 11.95   | 10.95   |
| 771155   | 3590S-2-103L  | 10k  | 12.95   | 11.95   | 10.95   |
| 771139   | 3590S-1-104L  | 100k | 16.95   | 15.49   | 13.95   |

## 2-Watt 10-Turn Linear Taper (±5%)

| Part No. | Cross Ref. No. | Ohms | 1      | 10     | 50     |
|----------|----------------|------|--------|--------|--------|
| 2111880  | 3540S-1-502    | 5k   | \$9.95 | \$9.49 | \$8.95 |

## Bourns® 1/4-Watt, 4mm Square SMD, Trim Potentiometers (±10%)

### 3314 Series Top Adjustment

- Adjustment angle: 210° • Straight slot
- End resistance: 1% or 2Ω max.
- Power rating: 0.25W @ 70°C

| Part No. | Mfr. Part No. | Ohms | 1      | 10     | 100    |
|----------|---------------|------|--------|--------|--------|
| 854330   | 3314J-1-502E  | 5K   | \$0.75 | \$0.69 | \$0.65 |
| 854284   | 3314G-1-103E  | 10K  | 0.75   | .69    | .65    |

## 1/4-Watt Miniature Linear (±20%)

### X201 (19/32") Vertical Mount

- 15mm thick • Volt. rating: 350VDC
- Power rating: below 5kΩ - 1/4 watt @ 40°C; 5kΩ & above - 1/4 watt @ 55°C
- Total rotation: 260° ±5°

| Equivalent to: |
|----------------|
| CTS X201R      |
| Bourns 3355X   |
| PIHER PT15     |

| Qty.  | 1      | 10     | 100    | 500    |
|-------|--------|--------|--------|--------|
| Price | \$0.55 | \$0.45 | \$0.39 | \$0.35 |

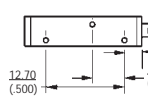
| Part No. | Cross Ref. No. | Ohms | Part No. | Cross Ref. No. | Ohms |
|----------|----------------|------|----------|----------------|------|
| 94693    | X201R1K        | 1k   | 94714    | X201R10K       | 10k  |
| 35503    | X201R252B      | 2.5k | 94722    | X201R50K       | 50k  |
| 94706    | X201R5K        | 5k   | 94731    | X201R100K      | 100k |

## 3/4-Watt, 3/4" Rectangular, 15-Turn Cermet Potentiometers Side Adjustment (±10%)

### 3006P Series Value Equivalents

\*Web Code: FDG

- Low PC board profile
- Temp. range: -55°C to 125°C
- Absolute min. resis.: 1% or 2Ω
- Contact resis.: 1% or 1Ω max.
- Power rating: 0.75W @ 70°C (400V max.)



### Cross Ref. Chart

| Equivalent to:    |
|-------------------|
| Allen Bradley 94P |
| Beckman 89PR      |
| Bourns 3006P      |
| Litton 6034Y      |
| Mecopcal 8034     |
| Murata 2101P      |
| Spectrol 43P      |
| VRN 961-20        |
| Weston 830P       |

| Qty.  | 1      | 10     | 100    | 500    |
|-------|--------|--------|--------|--------|
| Price | \$1.49 | \$1.29 | \$1.09 | \$0.95 |

| Part No. | Cross Ref. No. | Ohms | Part No. | Cross Ref. No. | Ohms |
|----------|----------------|------|----------|----------------|------|
| 241235   | 3006P-101      | 100  | 241307   | 3006P-203      | 20k  |
| 241242   | 3006P-201      | 200  | 241314   | 3006P-253+     | 25k  |
| 41937    | 3006P-501      | 500  | 41911    | 3006P-503      | 50k  |
| 241252   | 3006P-501      | 500  | 241323   | 3006P-503      | 50k  |
| 241269   | 3006P-102+     | 1k   | 41849    | 3006P-104      | 100k |
| 41865    | 3006P-202      | 2k   | 241332   | 3006P-104      | 100k |
| 241278   | 3006P-202      | 2k   | 63001    | 3006P-204      | 200k |
| 41890    | 3006P-502      | 5k   | 241350   | 3006P-204      | 200k |
| 241286   | 3006P-502      | 5k   | 41953    | 3006P-504      | 500k |
| 41822    | 3006P-103      | 10k  | 41806    | 3006P-105      | 1M   |
| 241294   | 3006P-103      | 10k  | 241374   | 3006P-105      | 1M   |
| 41873    | 3006P-203      | 20k  |          |                |      |

## 1/2-Watt, 1/4" Round, Cermet Potentiometers (±10%)

### 3329P Series Value Equivalents

- Sealed to withstand wave soldering and immersion cleaning process
- Terminals: solderable pins
- TO-5 grid
- Top adjustment
- Extended temp. range: -55°C to +150°C

\*Web Code: JDG

| Cross Ref. Chart |
|------------------|
| Equivalent to:   |
| Beckman 82M      |
| Bourns 3329P     |
| Mecopcal 8050    |
| MEC 471          |
| Murata 3321P     |
| Spectrol 62-3    |
| VRN 171          |
| Weston 567       |

| Qty.  | 1      | 10     | 100    | 500    |
|-------|--------|--------|--------|--------|
| Price | \$1.29 | \$1.15 | \$0.99 | \$0.79 |

| Part No. | Cross Ref. No. | Ohms | Part No. | Cross Ref. No. | Ohms |
|----------|----------------|------|----------|----------------|------|
| 254465   | 3329P-101      | 100  | 254538   | 3329P-203      | 20k  |
| 254473   | 3329P-201      | 200  | 95484    | 3329P-104      | 100k |
| 95441    | 3329P-102      | 1k   | 254570   | 3329P-204      | 200k |
| 96719    | 3329P-103      | 10k  | 254597   | 3329P-105      | 1M   |

## 1/4-Watt, 1/4" Square Trim Potentiometers Top Adjustment (±10%)

### Bourns 3266W Series Value Equivalents

- 12 turns nominal
- Contact resis. variation: 3% or 3Ω max. (whichever is greater)
- Absolute min. resis.: 1% or 2Ω max. (whichever is greater)
- Power rating: 0.25W @ 70°C (300V max.)
- Insulation resistance: (500VDC) 1,000mΩ min.

| Qty.  | 1      | 10     | 100    | 500    |
|-------|--------|--------|--------|--------|
| Price | \$2.49 | \$2.25 | \$1.95 | \$1.75 |

| Part No. | Cross Ref. No. | Ohms | Part No. | Cross Ref. No. | Ohms |
|----------|----------------|------|----------|----------------|------|
| 254609   | 3266W-500      | 50   | 254677   | 3266W-103      | 10k  |
| 254617   | 3266W-101      | 100  | 254692   | 3266W-253      | 25k  |
| 254626   | 3266W-201      | 200  | 254706   | 3266W-503      | 50k  |
| 254633   | 3266W-501      | 500  | 254714   | 3266W-104      | 100k |
| 254642   | 3266W-102      | 1k   | 254722   | 3266W-204      | 200k |
| 254651   | 3266W-202      | 2k   | 254730   | 3266W-504      | 500k |
| 254669   | 3266W-502      | 5k   | 254749   | 3266W-105      | 1M   |

## Pocket Trim Potentiometer Adjustment Tool

- Glass-filled body
- Stainless steel blade



| Part No. | Description  | Size  | 1      | 10     | 100    |
|----------|--------------|-------|--------|--------|--------|
| 153315   | Trimmer tool | 5.2"L | \$1.95 | \$1.75 | \$1.49 |

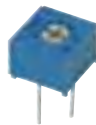
RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 197.



# Trimming Cermet Potentiometers & Knobs

## 1/2-Watt, 1/4" Square, Single-Turn Cermet Potentiometers (±10%)

- Insulation resis.: 500VDC 1000MΩ min.
  - Contact resis.: 1% or 3Ω • Linear taper
  - Rotation life: 200 cycles
  - Absolute min. res.: 1% or 2Ω
  - Terminals: solderable pins
  - Top adjustment: 240° nominal
  - Wipe positioning: 50% nominal
- Check cross ref. chart below



\*Web Code: UDF

| Qty.  | 1      | 10     | 100    | 500    |
|-------|--------|--------|--------|--------|
| Price | \$ .75 | \$ .65 | \$ .55 | \$ .45 |

### 3362H Series (Top Adjustment Sealed)

| Part No. | Cross Ref. No. | Ohms |
|----------|----------------|------|
| 770371   | 3362H-103      | 10k  |

### 3362P Series (Top Adjustment)

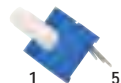
| Part No. | Cross Ref. No. | Ohms | Part No. | Cross Ref. No. | Ohms |
|----------|----------------|------|----------|----------------|------|
| 191644   | 3362P-200      | 20   | 254002   | 3362P-203      | 20k  |
| 189341   | 3362P-500      | 50   | 254028   | 3362P-503      | 50k  |
| 253972   | 3362P-201      | 200  | 254036   | 3362P-104      | 100k |
| 182810   | 3362P-501      | 500  | 182844   | 3362P-204      | 200k |
| 253982   | 3362P-102      | 1k   | 254044   | 3362P-504      | 500k |
| 182829   | 3362P-502      | 5k   | 254115   | 3362P-105      | 1M   |
| 182837   | 3362P-103      | 10k  |          |                |      |

### 3362W Series (Side Adjustment)

| Part No. | Cross Ref. No. | Ohms | Part No. | Cross Ref. No. | Ohms |
|----------|----------------|------|----------|----------------|------|
| 254175   | 3362W-102      | 1k   | 254204   | 3362W-103      | 10k  |

## 1/2-Watt, 3/8" Square, Single-Turn Trimmer Potentiometers w/ Shaft

- 3 positions • Shaft length: .32"
- .1" lead spacing



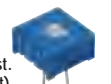
| Part No. | Mfr. Part No. | Price  |
|----------|---------------|--------|
| 2118803  | 18STS1K       | \$1.15 |
| 2118791  | 18STS10K      | 1.15   |

## 1/2-Watt, 3/8" Square, Single-Turn Trimmer Potentiometers

### Bourns 3386 Series Equivalents

\*Web Code: CDG

- Resis. tolerance: ±10%
- Insulation resis.: (500VDC) 1,000MΩ min.
- Absolute min. resis.: 2Ω max.
- Contact resis. variation: 2% or 3Ω Top Adjust.
- Temp. range: -55°C to 125°C



| Price    | 3386P  | 3386W  | 3386X  |
|----------|--------|--------|--------|
| 1 pc.    | \$1.15 | \$ .95 | \$ .95 |
| 10 pcs.  | .95    | .85    | .85    |
| 100 pcs. | .79    | .75    | .75    |
| 500 pcs. | .69    | —      | —      |

3386W Side Adj. (In-Line Pins)  
3386X Side Adj. (Y-Layout)

| Value (Ω) | 3386P - P/N | 3386W - P/N | 3386X - P/N |
|-----------|-------------|-------------|-------------|
| 50Ω       | —           | 241381      | —           |
| 100Ω      | 254297 +    | —           | 264612      |
| 200Ω      | 254300 +    | —           | —           |
| 500Ω      | 43123       | 241412      | 264639      |
| 1kΩ       | 42964 +     | 241429      | —           |
| 2kΩ       | 43043 +     | 241437      | —           |
| 5kΩ       | 43078       | 241445 +    | 264664      |
| 10kΩ      | 43001 +     | 241454      | 264671 +    |
| 20kΩ      | 43051 +     | 241461      | 264680      |
| 25kΩ      | 254377      | 241470      | 264698      |
| 50kΩ      | 43107 +     | 241488      | 264701      |
| 100kΩ     | 43027 +     | 241497      | 264719      |
| 200kΩ     | 254407      | 241509      | —           |
| 250kΩ     | 254414      | 241517      | 264735      |
| 300kΩ     | 43060       | —           | —           |
| 500kΩ     | 63212 +     | —           | —           |
| 1MΩ       | 42981 +     | 241533      | 264751      |
| 2MΩ       | 105216      | —           | —           |

## 1/2-Watt, 3/8" Square, Multi-Turn Trim Top Adjustment (±10%) Potentiometers

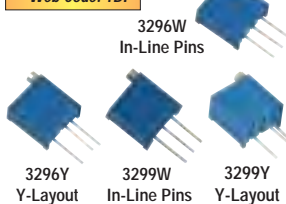
### Bourns 3296 and 3299 Series Equivalents

- Resistance tolerance: ±10% • 25 turns nominal
- Insulation resistance: (500VDC) 1,000MΩ min.
- Absolute min. resistance: 1% or 2Ω max.
- Contact resis.: 1% or 3Ω
- Power rating: 0.5W @ 70°C (300V max.)
- Temp range: -55°C to 150°C

#### Cross Ref. Chart

| Equivalent to: |         |
|----------------|---------|
| Allen Bradley  | E2B     |
| Beckman        | 72PR    |
| Bourns         | 3362P   |
| Bourns         | 3386P   |
| Copal          | CT6     |
| Copal          | CT-6P   |
| Meppocal       | 8038    |
| Murata         | 3104P   |
| Murata         | PVC6    |
| Spectrol       | 63P     |
| VRN            | 780-12P |
| Weston         | 840P    |
| Vishay         | 76      |

\*Web Code: TDF



| Price    | 3296W  | 3296Y  | 3299W  | 3299Y  |
|----------|--------|--------|--------|--------|
| 1 pc.    | \$1.95 | \$1.49 | \$1.75 | \$1.75 |
| 10 pcs.  | 1.75   | 1.35   | 1.49   | 1.35   |
| 100 pcs. | 1.49   | 1.19   | 1.35   | 1.19   |
| 500 pcs. | 1.35   | —      | 1.19   | —      |

| Value (Ω) | 3296W Part No. | 3296Y Part No. | 3299W Part No. | 3299Y Part No. |
|-----------|----------------|----------------|----------------|----------------|
| 10Ω       | —              | —              | 241058 +       | 240872         |
| 20Ω       | —              | —              | 241066 +       | 240881         |
| 50Ω       | —              | 240717         | —              | 240531         |
| 100Ω      | 853530         | 240725 +       | 241083         | —              |
| 200Ω      | —              | 240734         | 241091         | —              |
| 500Ω      | 853759         | 240742         | 241104         | 240928         |
| 1kΩ       | 853556         | 240750 +       | 241111 +       | 191396         |
| 2kΩ       | 853652         | 240769         | 241121         | 240944         |
| 5kΩ       | 853775         | 240777         | 241139         | 191426         |
| 10kΩ      | 853572         | 240427         | 241146 +       | 240602         |
| 20kΩ      | 853679         | 240435         | 238633         | —              |
| 25kΩ      | —              | 240806         | 241162 +       | 240629         |
| 50kΩ      | 853791         | 240813 +       | —              | 240637         |
| 100kΩ     | 853599         | 240470         | 241189 +       | 191409 +       |
| 200kΩ     | 853695         | —              | 854161         | —              |
| 250kΩ     | —              | 240830 +       | 241197         | 241016         |
| 500kΩ     | 853812         | —              | 238676         | —              |
| 1MΩ       | 853610         | 240856         | 241219         | —              |
| 2MΩ       | —              | 240864         | 241227         | —              |

## Instrumentation Knobs (1/4" Shaft Diameters)

JAMECO  
EXCLUSIVE

\*Web Code: EBD



| Part No. | Product No. | Body         | Pointer | H" x Dia." | Fig. | 1     | 10    | 100   | Part No. | Product No.       | Body        | Pointer | H" x Dia."  | Fig. | 1     | 10    | 100   |
|----------|-------------|--------------|---------|------------|------|-------|-------|-------|----------|-------------------|-------------|---------|-------------|------|-------|-------|-------|
| 265009   | JK-902B     | Black        | White   | .60 x .95  | 1    | \$.79 | \$.69 | \$.59 | 265041   | JK-904D           | Black/green | White   | .47 x .78   | 9    | \$.75 | \$.59 | \$.49 |
| 264998   | JK-902A     | Black        | White   | .69 x 1.31 | 1    | .95   | .79   | .69   | 265122   | JK-906D           | Black       | White   | .58 x .61   | 10   | .95   | .79   | .69   |
| 264990   | JK-901D     | Black/alum   | White   | .47 x .78  | 2    | .89   | .75   | .65   | 265261   | CR-MS-5-T18*      | Grey        | Grey    | .68 x .51   | 11   | .49   | .39   | .35   |
| 264955   | JK-901C     | Black/alum   | White   | .61 x 1.06 | 2    | .79   | .69   | .59   | 265228   | CR-MS-1-T18*      | Grey        | Red     | .68 x .51   | 11   | .49   | .39   | .35   |
| 264946   | JK-901B     | Black/alum   | White   | .64 x 1.29 | 2    | .95   | .85   | .75   | 264823   | CPBT-AA191A-1-SB6 | Black/black | White   | .79 x .77   | 11   | .95   | .85   | .75   |
| 264920   | JK-901A     | Black/alum   | White   | .79 x 1.77 | 2    | 1.49  | 1.35  | 1.09  | 265244   | CR-MS-3-T18       | Gray        | Blue    | .68 x .51   | 11   | .49   | .39   | .35   |
| 264892   | RN-113A     | Black/alum   | Numeric | .70 x 1.15 | 3    | .95   | .85   | .75   | 265236   | CR-MS-2-T18       | Gray        | Yellow  | .68 x .51   | 11   | .49   | .39   | .35   |
| 264883   | RN-112A     | Black/alum   | Numeric | .90 x 1.46 | 3    | .95   | .85   | .75   | 290125   | 42008-1           | Silver      | Silver  | .500 x .625 | 12   | 1.95  | 1.75  | 1.55  |
| 264912   | RN-114A     | Black/alum   | Numeric | .58 x 1.46 | 3    | .95   | .85   | .75   | 162481   | K5-1/4S           | Chrome      | Silver  | .500 x .560 | 13   | .95   | .79   | .69   |
| 102788   | JK-903C     | Black        | White   | .54 x 1.25 | 4    | .69   | .59   | .49   | 162499   | K5-1/4B           | Black       | White   | .500 x .560 | 14   | 1.49  | 1.35  | 1.19  |
| 104176   | JK-902C     | Black        | White   | .49 x .75  | 5    | .95   | .85   | .75   | 138482   | KN031             | Aluminum    | Black   | .610 x .650 | 15   | 1.95  | 1.75  | 1.55  |
| 202287   | CP-Z1-M-S   | Black/alum   | White   | .60 x .80  | 6    | .79   | .69   | .59   | 138502   | KN032             | Aluminum    | Black   | .870 x .750 | 15   | 2.19  | 1.95  | 1.75  |
| 136241   | GKB-214     | Black/alum   | White   | .52 x .54  | 7    | .95   | .79   | .69   | 138511   | KN033             | Aluminum    | Black   | 1.18 x .870 | 15   | 2.69  | 2.39  | 2.15  |
| 138393   | 41108-1     | Black/alum   | White   | .56 x .85  | 7    | 1.19  | 1.05  | .95   | 265156   | JK-907A-BL        | Gray/blue   | Blue    | .76 x 1.27  | 16   | 1.55  | 1.39  | 1.19  |
| 265077   | JK-905C     | Black/blue   | White   | .58 x .57  | 8    | .95   | .79   | .69   | 265148   | JK-907A-YW        | Gray/yellow | Yellow  | .76 x 1.27  | 16   | 1.25  | 1.09  | .95   |
| 265084   | JK-905D     | Black/green  | White   | .58 x .57  | 8    | .95   | .79   | .69   | 265181   | JK-907B-BL        | Gray/blue   | Blue    | .86 x .94   | 17   | 1.19  | .99   | .85   |
| 265051   | JK-905A     | Black/red    | White   | .58 x .57  | 8    | .95   | .79   | .69   | 265164   | JK-907B-RD        | Gray/red    | Red     | .86 x .94   | 17   | 1.19  | .99   | .85   |
| 265069   | JK-905B     | Black/yellow | White   | .58 x .57  | 8    | .95   | .79   | .69   | 265172   | JK-907B-YW        | Gray/yellow | Yellow  | .86 x .94   | 17   | 1.19  | .99   | .85   |
| 265033   | JK-904C     | Black/blue   | White   | .47 x .78  | 9    | .75   | .59   | .49   | 265201   | JK-907C-BL        | Gray/blue   | Blue    | .72 x .68   | 18   | 1.09  | .95   | .75   |
| 265018   | JK-904A     | Black/red    | White   | .47 x .78  | 9    | .75   | .59   | .49   | 265201   | JK-907C-YW        | Gray/yellow | Yellow  | .72 x .68   | 18   | 1.09  | .95   | .75   |
| 265025   | JK-904B     | Black/yellow | White   | .47 x .78  | 9    | .75   | .59   | .49   |          |                   |             |         |             |      |       |       |       |

\* For use with 1/4" knurled shaft † 1/8" shaft diameter

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

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# High-Current Toroid & Chip Inductors

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JAMECO ValuePro

## High-Current Toroid Inductors

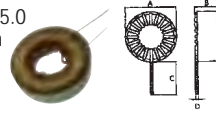
★ Web Code: KBY

- Low radiation
- Low core loss
- V = vertical mount;
- H = horizontal mount
- High current capacity
- Operating temp.: -55°C to +105°C
- DC - DC converter, EMI filter applications
- For complete specs see datasheets, [www.Jameco.com](http://www.Jameco.com)



### J.W. Miller 5700 Series Value Equivalents

- Size: A = 22.22mm max.; B = 11.09mm max. C = 15.0 ±1.0mm; D = 1.2±0.5mm
- High current capacity
- Low radiation
- Low core loss
- See page 132 for EMI suppression cores



### J.W. Miller 2100 Series Value Equivalents

| Qty.  | 1      | 10     | 100    |
|-------|--------|--------|--------|
| Price | \$ .99 | \$ .75 | \$ .55 |

| Part No. | Cross Ref. No. | L (μH) @ 1kHz | Part No. | Cross Ref. No. | L (μH) @ 1kHz |
|----------|----------------|---------------|----------|----------------|---------------|
| 371741   | 2101-V         | 10            | 371611   | 2112-H         | 100           |
| 371506   | 2101-H         | 10            | 371864   | 2113-V         | 120           |
| 371750   | 2102-V         | 12            | 371872   | 2114-V         | 150           |
| 371514   | 2102-H         | 12            | 371881   | 2115-V         | 180           |
| 371769   | 2103-V         | 15            | 371899   | 2116-V         | 220           |
| 371522   | 2103-H         | 15            | 371653   | 2116-H         | 220           |
| 371776   | 2104-V         | 18            | 371901   | 2117-V         | 270           |
| 371531   | 2104-H         | 18            | 371661   | 2117-H         | 270           |
| 371549   | 2105-H         | 22            | 371670   | 2118-H         | 330           |
| 371792   | 2106-V         | 27            | 371928   | 2119-V         | 390           |
| 371557   | 2106-H         | 27            | 371688   | 2119-H         | 390           |
| 371805   | 2107-V         | 33            | 371936   | 2120-V         | 470           |
| 371565   | 2107-H         | 33            | 371696   | 2120-H         | 470           |
| 371813   | 2108-V         | 39            | 371944   | 2121-V         | 560           |
| 371573   | 2108-H         | 39            | 371709   | 2121-H         | 560           |
| 371581   | 2109-H         | 47            | 371952   | 2122-V         | 680           |
| 371830   | 2110-V         | 56            | 371717   | 2122-H         | 680           |
| 371848   | 2111-V         | 68            | 371961   | 2123-V         | 820           |
| 371602   | 2111-H         | 68            | 371725   | 2123-H         | 820           |
| 371856   | 2112-V         | 100           | 371979   | 2124-V         | 1000          |

### J.W. Miller 2200 Series Value Equivalents

| Qty.  | 1       | 10     | 100    |
|-------|---------|--------|--------|
| Price | \$ 1.15 | \$ .85 | \$ .65 |

| Part No. | Cross Ref. No. | L (μH) @ 1kHz | Part No. | Cross Ref. No. | L (μH) @ 1kHz |
|----------|----------------|---------------|----------|----------------|---------------|
| 371021   | 2201-H         | 10            | 371151   | 2214-H         | 150           |
| 371274   | 2202-V         | 12            | 371400   | 2215-V         | 180           |
| 371282   | 2203-V         | 15            | 371160   | 2215-H         | 180           |
| 371047   | 2203-H         | 15            | 371418   | 2216-V         | 220           |
| 371063   | 2205-H         | 22            | 371426   | 2217-V         | 270           |
| 371071   | 2206-H         | 27            | 371186   | 2217-H         | 270           |
| 371320   | 2207-V         | 33            | 371434   | 2218-V         | 330           |
| 371080   | 2207-H         | 33            | 371194   | 2218-H         | 330           |
| 371338   | 2208-V         | 39            | 371442   | 2219-V         | 390           |
| 371098   | 2208-H         | 39            | 371207   | 2219-H         | 390           |
| 371101   | 2209-H         | 47            | 371451   | 2220-V         | 470           |
| 371119   | 2210-H         | 56            | 371215   | 2220-H         | 470           |
| 371354   | 2210-V         | 56            | 371469   | 2221-V         | 560           |
| 371362   | 2211-V         | 68            | 371223   | 2221-H         | 560           |
| 371127   | 2211-H         | 68            | 371477   | 2222-V         | 680           |
| 371371   | 2212-V         | 100           | 371231   | 2222-H         | 680           |
| 371135   | 2212-H         | 100           | 371485   | 2223-V         | 820           |
| 371389   | 2213-V         | 120           | 371240   | 2223-H         | 820           |
| 371143   | 2213-H         | 120           | 371493   | 2224-V         | 1000          |
| 371397   | 2214-V         | 150           | 371258   | 2224-H         | 1000          |

| Qty.  | 1       | 10      | 100    |
|-------|---------|---------|--------|
| Price | \$ 1.49 | \$ 1.19 | \$ .95 |

| Part No. | Cross Ref. No. | L (μH) @ 1kHz | Part No. | Cross Ref. No. | L (μH) @ 1kHz |
|----------|----------------|---------------|----------|----------------|---------------|
| 208259   | 5701           | 10            | 208274   | 5703           | 125           |
| 208266   | 5702           | 25            | 208320   | 5712           | 150           |
| 208311   | 5711           | 50            | 208283   | 5704           | 275           |
| 208303   | 5707           | 75            | 208292   | 5705           | 450           |

### J.W. Miller 2300 Series Value Equivalents

| Qty.  | 1       | 10     | 100    |
|-------|---------|--------|--------|
| Price | \$ 1.15 | \$ .85 | \$ .65 |

| Part No. | Cross Ref. No. | L (μH) @ 1kHz | Part No. | Cross Ref. No. | L (μH) @ 1kHz |
|----------|----------------|---------------|----------|----------------|---------------|
| 386901   | 2301-V         | 10            | 387188   | 2313-V         | 120           |
| 386361   | 2301-H         | 10            | 386636   | 2313-H         | 120           |
| 386935   | 2302-V         | 12            | 387209   | 2314-V         | 150           |
| 386396   | 2302-H         | 12            | 386652   | 2314-H         | 150           |
| 386951   | 2303-V         | 15            | 387233   | 2315-V         | 180           |
| 386425   | 2303-H         | 15            | 386679   | 2315-H         | 180           |
| 387006   | 2305-V         | 22            | 387268   | 2316-V         | 220           |
| 386468   | 2305-H         | 22            | 386695   | 2316-H         | 220           |
| 387022   | 2306-V         | 27            | 387284   | 2317-V         | 270           |
| 386484   | 2306-H         | 27            | 386724   | 2317-H         | 270           |
| 386505   | 2307-H         | 33            | 387330   | 2319-V         | 390           |
| 387065   | 2308-V         | 39            | 386767   | 2319-H         | 390           |
| 386521   | 2308-H         | 39            | 387364   | 2320-V         | 470           |
| 387090   | 2309-V         | 47            | 386783   | 2320-H         | 470           |
| 386548   | 2309-H         | 47            | 387381   | 2321-V         | 560           |
| 387111   | 2310-V         | 56            | 387410   | 2322-V         | 680           |
| 386564   | 2310-H         | 56            | 387436   | 2323-V         | 820           |
| 387137   | 2311-V         | 68            | 386855   | 2323-H         | 820           |
| 386581   | 2311-H         | 68            | 388041   | 2324-V         | 1000          |
| 386601   | 2312-H         | 100           | 386880   | 2324-H         | 1000          |

★ Blue Part No. = Limited Quantity Available

JAMECO ValuePro

## Chip Inductors (SMD)

- Ceramic core, wire wound for superior reliability
- High self-resonant frequency
- Stable electrical characteristics
- Flat top surface for automated pick and place

PM0805/  
PM1008



### PM0805 Series Equivalents

| Qty.  | 10     | 100    |
|-------|--------|--------|
| Price | \$ .15 | \$ .13 |

| Part No. | Cross Ref. No. | L (nH) | Part No. | Cross Ref. No. | L (nH) |
|----------|----------------|--------|----------|----------------|--------|
| 663592   | 0805-2N2M      | 2.2    | 663664   | 0805-33NM      | 33     |
| 663605   | 0805-3N3M      | 3.3    | 663672   | 0805-39NM      | 39     |
| 663621   | 0805-8N2M      | 8.2    | 663681   | 0805-47NM      | 47     |
| 663630   | 0805-12NM      | 12     | 663701   | 0805-68NM      | 68     |
| 663648   | 0805-18NM      | 18     | 663710   | 0805-82NM      | 82     |
| 663656   | 0805-27NM      | 27     |          |                |        |

## Chip Inductors (SMD) (Continued)

### PM1008 Series Equivalents

| Qty.  | 10     | 100    |
|-------|--------|--------|
| Price | \$ .15 | \$ .13 |

| Part No. | Cross Ref. No. | L (nH) | Part No. | Cross Ref. No. | L (nH) |
|----------|----------------|--------|----------|----------------|--------|
| 663736   | 1008-10NM      | 10     | 663867   | 1008-R12K      | 120    |
| 663744   | 1008-12NM      | 12     | 663875   | 1008-R15K      | 150    |
| 663752   | 1008-15NM      | 15     | 663883   | 1008-R18K      | 180    |
| 663761   | 1008-18NM      | 18     | 663891   | 1008-R22K      | 220    |
| 663779   | 1008-22NM      | 22     | 663904   | 1008-R27K      | 270    |
| 663787   | 1008-27NM      | 27     | 663912   | 1008-R33K      | 330    |
| 663795   | 1008-33NM      | 33     | 663921   | 1008-R39K      | 390    |
| 663808   | 1008-39NM      | 39     | 663939   | 1008-2R7K      | 2700   |
| 663816   | 1008-47NM      | 47     | 663947   | 1008-3R3K      | 3300   |
| 663824   | 1008-56NK      | 56     | 663955   | 1008-3R9K      | 3900   |
| 663832   | 1008-68NK      | 68     | 663963   | 1008-4R7K      | 4700   |
| 663841   | 1008-82NK      | 82     |          |                |        |

### PM1210 Series Equivalents

| Qty.  | 10     | 100    |
|-------|--------|--------|
| Price | \$ .15 | \$ .13 |

| Part No. | Cross Ref. No. | L (μH) | Part No. | Cross Ref. No. | L (μH) |
|----------|----------------|--------|----------|----------------|--------|
| 663971   | 1210-1R0J      | 1.0    | 664114   | 1210-150J      | 15     |
| 663980   | 1210-1R2J      | 1.2    | 664122   | 1210-180J      | 18     |
| 663998   | 1210-1R5J      | 1.5    | 664149   | 1210-270J      | 27     |
| 664000   | 1210-1R8J      | 1.8    | 664157   | 1210-330J      | 33     |
| 664018   | 1210-2R2J      | 2.2    | 664165   | 1210-390J      | 39     |
| 664026   | 1210-2R7J      | 2.7    | 664173   | 1210-470J      | 47     |
| 664034   | 1210-3R3J      | 3.3    | 664181   | 1210-560J      | 56     |
| 664042   | 1210-3R9J      | 3.9    | 664190   | 1210-680J      | 68     |
| 664051   | 1210-4R7J      | 4.7    | 664202   | 1210-820J      | 82     |
| 664069   | 1210-5R6J      | 5.6    | 664211   | 1210-101J      | 100    |
| 664077   | 1210-6R8J      | 6.8    | 664229   | 1210-121J      | 120    |
| 664085   | 1210-8R2J      | 8.2    | 664237   | 1210-151J      | 150    |
| 664093   | 1210-100J      | 10     | 664245   | 1210-181J      | 180    |
| 664106   | 1210-120J      | 12     | 664253   | 1210-221J      | 220    |

### PM1812 Series Equivalents

| Qty.  | 10     | 100    |
|-------|--------|--------|
| Price | \$ .15 | \$ .13 |

| Part No. | Cross Ref. No. | L (μH) | Part No. | Cross Ref. No. | L (μH) |
|----------|----------------|--------|----------|----------------|--------|
| 643014   | 1812-R10K      | 0.10   | 643276   | 1812-150J      | 15     |
| 643022   | 1812-R12K      | 0.12   | 643284   | 1812-180J      | 18     |
| 643031   | 1812-R15K      | 0.15   | 643292   | 1812-220J      | 22     |
| 643049   | 1812-R18K      | 0.18   | 643305   | 1812-270J      | 27     |
| 643057   | 1812-R22K      | 0.22   | 643313   | 1812-330J      | 33     |
| 643065   | 1812-R27K      | 0.27   | 643321   | 1812-390J      | 39     |
| 643073   | 1812-R33K      | 0.33   | 643330   | 1812-470J      | 47     |
| 643081   | 1812-R39K      | 0.39   | 643348   | 1812-560J      | 56     |
| 643090   | 1812-R47K      | 0.47   | 643356   | 1812-680J      | 68     |
| 643102   | 1812-R56K      | 0.56   | 643364   | 1812-820J      | 82     |
| 643111   | 1812-R68K      | 0.68   | 643372   | 1812-101J      | 100    |
| 643129   | 1812-R82K      | 0.82   | 643381   | 1812-121J      | 120    |
| 643153   | 1812-1R5J      | 1.5    | 643399   | 1812-151J      | 150    |
| 643161   | 1812-1R8J      | 1.8    | 643401   | 1812-181J      | 180    |
| 643188   | 1812-2R7J      | 2.7    | 643410   | 1812-221J      | 220    |
| 643196   | 1812-3R3J      | 3.3    | 643436   | 1812-331J      | 330    |
| 643209   | 1812-3R9J      | 3.9    | 643444   | 1812-391J      | 390    |
| 643217   | 1812-4R7J      | 4.7    | 643452   | 1812-471J      | 470    |
| 643225   | 1812-5R6J      | 5.6    | 643461   | 1812-561J      | 560    |
| 1864812  | 1812-6R8K      | 6.8    | 643479   | 1812-681J      | 680    |
| 643241   | 1812-8R2J      | 8.2    | 643487   | 1812-821J      | 820    |
| 643268   | 1812-120J      | 12     |          |                |        |

\* Murata

Have A Large Volume Order That Requires Special Pricing?  
Call us at 1-800-831-4242

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 197.

## TRIAD

## Inductor

- DC current: 5.5A • DCR max.: 0.049Ω
- Inductance: 4.4mH ±10%

| Part No. | Mfr. Part No. | 1      | 10     |
|----------|---------------|--------|--------|
| 627479   | CME375-1      | \$5.95 | \$4.95 |



## 1206 Chip Ferrite Beads

### For EMI Filtering

- 26Ω Impedance ±25% @ 100MHz
- Operating temp: -55° to 125°C
- DC resistance: 0.05Ω

Order in multiples of 10

| Part No. | Mfr. Part No. | Current | 10    | 100   | 500   |
|----------|---------------|---------|-------|-------|-------|
| 1845371  | BLM31AJ260SN1 | 500mA   | \$.15 | \$.09 | \$.07 |



## Epoxy Conformal Coated RF Chokes

- Operating temp.: -55°C to +105°C
- Dielectric strength: 500Vrms
- Color bands identification
- Low DCR
- Low cost

\*Web Code: WBG

### J.W. Miller 77F Series Equivalents

- High current and self-resonant frequency
- Overall length: 2.41"
- Body length: 0.41"
- Lead length: 1.0"
- Body diameter: 0.157"

Order in multiples of 10

| Qty.  | 10    | 100   |
|-------|-------|-------|
| Price | \$.07 | \$.05 |

| Part No. | Cross Ref. No. | L (μH) | Part No. | Cross Ref. No. | L (μH) |
|----------|----------------|--------|----------|----------------|--------|
| 371995   | 77F6R8K*       | 6.8    | 372058   | 77F101J        | 100    |
| 372007   | 77F100K*       | 10     | 372066   | 77F221J        | 220    |
| 372015   | 77F270K*       | 27     | 372074   | 77F331J        | 330    |
| 372023   | 77F330J        | 33     | 372082   | 77F391J        | 390    |
| 372031   | 77F470J        | 47     | 372091   | 77F102J        | 1000   |
| 372040   | 77F820J        | 82     |          |                |        |

\*L (μH) ±10%

### J.W. Miller 78F Series Equivalents

- High Q and self-resonant frequency
- Overall length: 2.28"
- Body diameter: 0.11"
- Lead length: 1.0"
- Body length: 0.28"

Blue Part No. = Limited Quantity Available Order in multiples of 10

| Qty.  | 10    | 100   |
|-------|-------|-------|
| Price | \$.07 | \$.05 |

| Part No. | Cross Ref. No. | L (μH) | Part No. | Cross Ref. No. | L (μH) |
|----------|----------------|--------|----------|----------------|--------|
| 372103   | 78F6R8K*       | 0.68   | 372197   | 78F220J        | 22     |
| 372111   | 78F1R0K*       | 1.0    | 372200   | 78F270J        | 27     |
| 372120   | 78F1R8K*       | 1.8    | 372218   | 78F330J        | 33     |
| 372138   | 78F2R7K*       | 2.7    | 372226   | 78F390J        | 39     |
| 372146   | 78F3R3J        | 3.3    | 372234   | 78F470K        | 47     |
| 372154   | 78F4R7J        | 4.7    | 372251   | 78F121J        | 120    |
| 372162   | 78F8R2J        | 8.2    | 372269   | 78F221J        | 220    |
| 372171   | 78F100J        | 10     | 372277   | 78F471J        | 470    |
| 372189   | 78F120J        | 12     |          |                |        |

## Epoxy Conformal Coated Chokes

- Operating temperature: -25°C to +85°C
- Tolerance: 5%

Order in multiples of 10

| Qty.  | 10    | 100   |
|-------|-------|-------|
| Price | \$.09 | \$.07 |

| Part No. | Cross Ref. No. | L (μH) | Part No. | Cross Ref. No. | L (μH) |
|----------|----------------|--------|----------|----------------|--------|
| 208143   | CEC-100J       | 10     | 208207   | CEC-221J       | 220    |
| 208151   | CEC-270J       | 27     | 208215   | CEC-331J       | 330    |
| 208160   | CEC-330J       | 33     | 208223   | CEC-471J       | 470    |
| 208186   | CEC-470J       | 47     | 208231   | CEC-821J       | 820    |
| 208194   | CEC-101J       | 100    | 208240   | CEC-102J       | 1000   |

## Conformal Coated RF Chokes

### J.W. Miller 5300 Series Value Equivalents

- High current & self-resonant frequency
- Low DCR
- Epoxy coated to protect winding from harsh environments
- Low cost

\*Web Code: MBY

| Qty.  | 1     | 10    | 100   |
|-------|-------|-------|-------|
| Price | \$.55 | \$.39 | \$.29 |

| Part No. | Cross Ref. No. | L (μH) | Part No. | Cross Ref. No. | L (μH) |
|----------|----------------|--------|----------|----------------|--------|
| 644332   | 5300-03R       | 1.5    | 642476   | 5300-19R       | 33     |
| 644341   | 5300-10R       | 5.6    | 642492   | 5300-25R       | 100    |
| 644367   | 5300-13R       | 10     | 642530   | 5300-33R       | 470    |
| 644375   | 5300-17R       | 22     |          |                |        |

## High Current Axial RF Chokes

- High current capacity
- Ferrite bobbin core
- Test frequency: 1kHz
- Low DCR



\*Web Code: BCG

### J.W. Miller 5800 Series Value Equivalents

| Qty.  | 1     | 10    | 100   |
|-------|-------|-------|-------|
| Price | \$.69 | \$.55 | \$.39 |

| Part No. | Cross Ref. No. | L (μH) | Part No. | Cross Ref. No. | L (μH) |
|----------|----------------|--------|----------|----------------|--------|
| 642548   | 5800-3R9R      | 3.9    | 642652   | 5800-271R      | 270    |
| 642556   | 5800-8R2R      | 8.2    | 642661   | 5800-331R      | 330    |
| 642564   | 5800-100R      | 10     | 642679   | 5800-391R      | 390    |
| 642572   | 5800-470R      | 47     | 642687   | 5800-471R      | 470    |
| 642581   | 5800-560R      | 56     | 642695   | 5800-102R      | 1000   |
| 642599   | 5800-820R      | 82     | 642708   | 5800-152R      | 1500   |
| 642601   | 5800-101R      | 100    | 642716   | 5800-222R      | 2200   |
| 642610   | 5800-121R      | 120    | 642724   | 5800-472R      | 4700   |
| 642628   | 5800-151R      | 150    | 642732   | 5800-682R      | 6800   |
| 642636   | 5800-181R      | 180    | 642741   | 5800-103R      | 10000  |
| 642644   | 5800-221R      | 220    |          |                |        |

### J.W. Miller 5900 Series Value Equivalents

| Qty.  | 1     | 10    | 100   |
|-------|-------|-------|-------|
| Price | \$.99 | \$.79 | \$.59 |

| Part No. | Cross Ref. No. | L (μH) | Part No. | Cross Ref. No. | L (μH) |
|----------|----------------|--------|----------|----------------|--------|
| 642759   | 5900-100R      | 10     | 642839   | 5900-271       | 270    |
| 642767   | 5900-220R      | 22     | 642847   | 5900-331R      | 330    |
| 642775   | 5900-470R      | 47     | 642855   | 5900-391R      | 390    |
| 642783   | 5900-560R      | 56     | 642871   | 5900-681R      | 680    |
| 642791   | 5900-101R      | 100    | 642880   | 5900-102R      | 1000   |
| 642804   | 5900-121R      | 120    | 642919   | 5900-682R      | 6800   |
| 642812   | 5900-151R      | 150    | 642901   | 5900-472R      | 4700   |
| 642821   | 5900-221R      | 220    | 642927   | 5900-103R      | 10000  |



## Hash RF Chokes

### J.W. Miller 5200 Series Value Equivalents

- High current capacity
- Varnish coated
- Ideal for use as EMI filter, output choke smoothing coil
- Low DCR

| Qty.  | 1     | 10    | 100   |
|-------|-------|-------|-------|
| Price | \$.89 | \$.69 | \$.49 |

| Part No. | Cross Ref. No. | L (μH) | Part No. | Cross Ref. No. | L (μH) |
|----------|----------------|--------|----------|----------------|--------|
| 642396   | 5230R          | 4      | 642417   | 5254R          | 250    |
| 642409   | 5240R          | 40     | 642425   | 5256R          | 500    |
| 681070   | 5252R          | 125    | 642433   | 5258R          | 1000   |

# Inductor & Chokes



## Axial Leaded RF Chokes

- Inductive tolerance: 10%
- Operating temp.: -55°C to +125°C
- Overall length: 3.6" max.
- Lead length: 1.5" max.
- Body length: 0.77" max.
- Body dia.: 0.3" max.

\*Web Code: XCF



### J.W. Miller 4600 Series Value Equivalents

| Qty.  | 1     | 10    | 100   |
|-------|-------|-------|-------|
| Price | \$.69 | \$.55 | \$.39 |

| Part No. | Cross Ref. No. | L (μH) | Part No. | Cross Ref. No. | L (μH) |
|----------|----------------|--------|----------|----------------|--------|
| 208071   | 4604           | 1.5    | 642337   | 4624R          | 15     |
| 208080   | 4606           | 2.4    | 642345   | 4626R          | 24     |
| 208101   | 4609           | 5.5    | 642353   | 4629R          | 55     |
| 208119   | 4610           | 6.2    | 642388   | 4632R          | 100    |
| 208127   | 4611           | 8.2    |          |                |        |



## Molded RF Chokes

- Dielectric strength: 1000Vrms
- Injection molded to protect from extreme environment
- High Q and high reliability

\*Web Code: PBY



### J.W. Miller 9230 Series Equivalents

| Qty.  | 1     | 10    | 100   |
|-------|-------|-------|-------|
| Price | \$.59 | \$.49 | \$.35 |

| Part No. | Cross Ref. No. | L (μH) | Part No. | Cross Ref. No. | L (μH) |
|----------|----------------|--------|----------|----------------|--------|
| 372285   | 9230-94        | 0.10   | 372373   | 9230-34        | 3.9    |
| 372293   | 9230-00        | 0.15   | 372381   | 9230-36        | 4.7    |
| 372306   | 9230-04        | 0.22   | 372390   | 9230-44        | 10     |
| 372314   | 9230-10        | 0.39   | 372402   | 9230-52        | 22     |
| 372322   | 9230-12        | 0.47   | 372411   | 9230-56        | 33     |
| 372331   | 9230-14        | 0.56   | 372429   | 9230-64        | 68     |
| 372349   | 9230-16        | 0.68   | 372437   | 9230-68        | 100    |
| 372357   | 9230-20        | 1.0    | 372445   | 9230-70        | 120    |
| 372365   | 9230-32        | 3.3    |          |                |        |

### J.W. Miller 9250 Series Equivalents

| Qty.  | 1     | 10    | 100   |
|-------|-------|-------|-------|
| Price | \$.95 | \$.75 | \$.55 |

| Part No. | Cross Ref. No. | L (μH) | Part No. | Cross Ref. No. | L (μH) |
|----------|----------------|--------|----------|----------------|--------|
| 372453   | 9250-102       | 1.0    | 372509   | 9250-473       | 47     |
| 372461   | 9250-222       | 2.2    | 372517   | 9250-104       | 100    |
| 372470   | 9250-472       | 4.7    | 372525   | 9250-224       | 220    |
| 372488   | 9250-103       | 10     | 372533   | 9250-474       | 470    |
| 372496   | 9250-223       | 22     | 372550   | 9250-225       | 2200   |

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# Hook-Up & Telephone Cable

| 3 LEVELS OF SAVINGS |              |                 |
|---------------------|--------------|-----------------|
| NAME BRANDS         | HOUSE BRANDS | FACTORY OVERRUN |

JAMECO ValuePro

## Hook-Up Wire – Single & Dual Rated

\*Web Code: JAS

- Applications: Interconnection circuits, wiring of computer and data processing equipment, applications and automotive • Tinned copper • PVC insulation • Stranded • Sold in 100' rolls

Single Rated (UL1007): -40° to 80°C: 300V peak

Dual Rated (UL1007 & UL1569): -40° to 105°C: 600V peak

Appliance Wiring Material (AWM) is UL recognized covering of insulated wire & cable intended for internal wiring of appliances & equipment.



| AWG | Stranding | UL1007 | UL1569 | Black P/N | Red P/N | White P/N | Green P/N | Yellow P/N | Blue P/N | 1      | 5      | 10     |
|-----|-----------|--------|--------|-----------|---------|-----------|-----------|------------|----------|--------|--------|--------|
| 28  | 7 x 36    | x      | x      | 734611    | 734603  | 734610    | 734606    | 734605     | 734614   | \$6.95 | \$6.49 | \$5.95 |
| 26  | 7 x 34    | x      | x      | 734511    | 734503  | 734510    | 734506    | 734505     | 734514   | 7.95   | 7.29   | 6.49   |
| 24  | 7 x 32    | x      | x      | 734411    | 734403  | 734410    | 734406    | 734405     | 734414   | 8.95   | 7.95   | 6.95   |
| 22  | 7 x 30    | x      |        | 126085    | 126034  | 126077    | 310852    | 310878     | 310886   | 6.95   | 5.95   | 4.95   |
| 22  | 7 x 30    | x      | x      | 734311    | 734303  | 734310    | 734306    | 734305     | 734314   | 9.95   | 8.95   | 7.95   |
| 20  | 10 x 30   | x      |        | 125840    | 125795  | 125831    | 310894    | 310915     | 310922   | 9.95   | 8.95   | 7.95   |
| 20  | 10 x 30   | x      | x      | 734211    | 734203  | 734210    | 734206    | 734205     | 734214   | 11.95  | 10.95  | 9.95   |
| 18  | 16 x 30   | x      |        | 125787    | 125736  | 125752    | 310932    | 310949     | 310958   | 13.95  | 12.95  | 11.95  |
| 18  | 16 x 30   | x      | x      | 734111    | 734103  | 734110    | 734106    | 734105     | 734114   | 16.95  | 15.49  | 13.95  |
| 16  | 26 x 30   | x      | x      | 734011    | 734003  | 734010    | 734006    | 734005     | 734014   | 19.95  | 17.95  | 15.95  |

## Composite Data, Audio, Video Security & Control Cable

Two RG6 18 AWG solid bare copper conductors and Two 4-pair UTP 24 AWG solid bare copper conductors



- Gas injected FPE insulation coax cable, polyolefin insulation CAT5e cable and F-R PVC jackets
- Banana Peel™ Jacketless cable
- Component nominal outer diameter: 0.194"
- Overall nominal outer diameter: 0.600"
- Color: black

| Part No. | Mfr. Part No. | Description | Price    |
|----------|---------------|-------------|----------|
| 734163   | 7913S-1000    | 1000' reel  | \$549.95 |

For Soldering Equipment, see pgs 165-170

For Wire Cutters/Strippers, see pgs 160-162

Wire & Cable

## Solid Hook-Up Wire – 22 AWG

\*Web Code: PAF

- Temperature range: -55°C to +105°C
- Passes UL VW-1 flame test • MIL-W-16878D type B
- For use with breadboards such as the JE20 series, pg 172



| 100 Foot Reel |        | Pricing |        |
|---------------|--------|---------|--------|
| Part No.      | Color  | 1       | 5      |
| 36768         | Blue   | \$6.95  | \$6.29 |
| 36792         | Black  | 6.95    | 6.29   |
| 36822         | Green  | 6.95    | 6.29   |
| 36856         | Red    | 6.95    | 6.29   |
| 36881         | White  | 6.95    | 6.29   |
| 36920         | Yellow | 6.95    | 6.29   |

| 1000 Foot Reel |        | Pricing |         |
|----------------|--------|---------|---------|
| Part No.       | Color  | 1       | 5       |
| 36776          | Blue   | \$59.95 | \$54.95 |
| 36805          | Black  | 59.95   | 54.95   |
| 36840          | Green  | 59.95   | 54.95   |
| 36864          | Red    | 59.95   | 54.95   |
| 36899          | White  | 59.95   | 54.95   |
| 36928          | Yellow | 59.95   | 54.95   |

## Kynar™ Wire-Wrap Wire – 30 AWG

\*Web Code: NAC

- Polyvinylidene fluoride insulation • Used for prototyping
- Silver plated copper (solid conductor) • UL 1423
- Temperature: -40°C to +125°C • Passes UL VW-1 flame test
- Wire wrap tools, pg 163 • See pg 18 for sockets



| 100 Foot Reel |        | Pricing |        |
|---------------|--------|---------|--------|
| Part No.      | Color  | 1       | 5      |
| 22542         | Blue   | \$7.95  | \$7.25 |
| 22577         | Black  | 7.95    | 7.25   |
| 22631         | Red    | 7.95    | 7.25   |
| 22665         | White  | 7.95    | 7.25   |
| 22606         | Green  | 7.95    | 7.25   |
| 22700         | Yellow | 7.95    | 7.25   |

| 1000 Foot Reel |        | Pricing |         |
|----------------|--------|---------|---------|
| Part No.       | Color  | 1       | 5       |
| 22551          | Blue   | \$54.95 | \$49.95 |
| 22585          | Black  | 54.95   | 49.95   |
| 22649          | Red    | 54.95   | 49.95   |
| 22673          | White  | 54.95   | 49.95   |
| 22614          | Green  | 54.95   | 49.95   |
| 22702          | Yellow | 54.95   | 49.95   |

JAMECO ValuePro

## Twisted Paired Cable – 24 AWG

- PVC insulation • Reduced EMI
- Use for hook-up wire • 80°C
- Stranded tinned wire (7 x 32) • 300 V

\*Web Code: EBC



| 100 Foot Reel |             | Pricing |        |
|---------------|-------------|---------|--------|
| Part No.      | Color       | 1       | 5      |
| 173164        | Black/white | \$8.95  | \$7.95 |
| 105912        | Grn/white   | 8.95    | 7.95   |
| 173148        | Red/white   | 8.95    | 7.95   |

| 1000 Foot Reel |             | Pricing |         |
|----------------|-------------|---------|---------|
| Part No.       | Color       | 1       | 5       |
| 173172         | Black/white | \$79.95 | \$69.95 |
| 105807         | Grn/white   | 79.95   | 69.95   |
| 173156         | Red/white   | 79.95   | 69.95   |

JAMECO ValuePro

## Modular Telephone Cable – 28 AWG

- Color coded conductors • Flat modular cable • Gray
- 7 x 43 stranded • PVC jacket

\*Web Code: LCG



| Part No. | Cross Ref. No. | Conductors | Length (ft.) | 1      | 5      | 10     |
|----------|----------------|------------|--------------|--------|--------|--------|
| 644666   | 300-840SL-100  | 4          | 100          | \$5.95 | \$5.49 | \$4.95 |
| 644674   | 300-840SL-1000 | 4          | 1000         | 49.95  | 44.95  | 39.95  |
| 644691   | 300-860SL-100  | 6          | 100          | 8.95   | 7.95   | 6.95   |
| 644703   | 300-860SL-1000 | 6          | 1000         | 69.95  | 64.95  | 59.95  |
| 644720   | 300-880SL-100  | 8          | 100          | 9.95   | 8.95   | 7.95   |
| 644738   | 300-880SL-1000 | 8          | 1000         | 89.95  | 84.95  | 79.95  |

JAMECO ValuePro

## Bus Bar Hook-Up Wire

\*Web Code: BBW

Tinned & Enameled (Type 1) and Bare (Type 2) Copper

- Solid soft drawn annealed bare copper
- Type 1 – Tinned & enameled, sold in 100' reels
- Type 2 – Non-insulated bare copper, sold in 1/4 lb. reels

NEW MARKED IN PINK



- Single conductor
- Approvals: Type 1: ASTM-B-3, QQ-W-343-Type-S; Type 2: ASTM B-3

| Part No. | Gauge  | Type | O.D. (in.) | Amps | 1      | 5      | 25     |
|----------|--------|------|------------|------|--------|--------|--------|
| 2098478  | 24 AWG | 1    | 0.020      | 5    | \$6.95 | \$6.25 | \$5.49 |
| 2119339  | 24 AWG | 2    | 0.020      | —    | 10.95  | 9.95   | 8.95   |
| 2098486  | 22 AWG | 1    | 0.025      | 7    | 7.95   | 7.25   | 6.49   |
| 2119321  | 22 AWG | 2    | 0.025      | —    | 9.95   | 8.95   | 7.95   |
| 2098494  | 20 AWG | 1    | 0.032      | 8.5  | 9.95   | 8.95   | 7.95   |
| 2119312  | 20 AWG | 2    | 0.025      | —    | 8.95   | 7.95   | 7.25   |
| 2098507  | 18 AWG | 1    | 0.040      | 16   | 13.95  | 12.49  | 10.95  |
| 2119304  | 18 AWG | 2    | 0.040      | —    | 7.95   | 7.25   | 6.49   |
| 2098515  | 16 AWG | 1    | 0.061      | 19   | 17.95  | 16.49  | 14.95  |
| 2119291  | 16 AWG | 2    | 0.051      | —    | 6.49   | 5.75   | 4.95   |

## 1/4 Lb. Solid Bare Nickel Chromium Resistance Wire

This wire is made for applications requiring extremely high temperatures such as electrical heating and industrial rheostat and resistance. The heat rating allows the wire to withstand severe overloads and short circuits.

- 60% nickel, 16% chromium, 24% iron
- Temperature: to 3056°F (1680°C)
- Excellent resistance characteristics

\*Web Code: BNC

NEW MARKED IN PINK



| Part No. | Gauge  | Nom. O.D. | Length (ft.) | Ω/Ft. @ 68F | 1       | 5       | 25      |
|----------|--------|-----------|--------------|-------------|---------|---------|---------|
| 2119371  | 16 AWG | .0510"    | 32           | .2595       | \$15.95 | \$14.49 | \$13.49 |
| 2119380  | 18 AWG | .0400"    | 51           | .4219       | 16.49   | 14.95   | 13.95   |
| 2119398  | 20 AWG | .0320"    | 81           | .6592       | 16.95   | 15.49   | 14.59   |
| 2119401  | 22 AWG | .0253"    | 129          | 1.055       | 17.95   | 16.49   | 14.95   |
| 2119419  | 24 AWG | .0201"    | 205          | 1.671       | 18.95   | 17.49   | 15.95   |

JAMECO ValuePro

## 1/4 Lb. Magnet Wire

\*Web Code: MGT

Excellent Windability!

Magnetic wire is perfect for custom winding applications: coils, inductors, transformers, motors, ballasts, relays, speakers and timers.

- Solid bare copper conductor
- Polyurethane/polyamide (nylon) insulation
- Solderable @ 806°F/430°C (14-24 AWG), 680°F/360°C (25-40 AWG)
- Approvals: MIL JW-1177/9, MW 28-C, Class 130 (14-24 AWG) MIL JW-1177/42, MW 80-C, Class 155 (25-40 AWG)

NEW MARKED IN PINK



| Part No. | Gauge  | Nom. O.D. | Length (ft.) | Temp. Range  | 1      | 5      | 25     |
|----------|--------|-----------|--------------|--------------|--------|--------|--------|
| 2098371  | 16 AWG | .0524"    | 32           | -30° – 130°C | \$5.49 | \$4.95 | \$4.49 |
| 2098380  | 18 AWG | .0418"    | 51           | -30° – 130°C | 5.75   | 5.25   | 4.75   |
| 2098398  | 20 AWG | .0334"    | 81           | -30° – 130°C | 5.95   | 5.49   | 4.95   |
| 2098401  | 22 AWG | .0265"    | 129          | -30° – 130°C | 6.49   | 5.95   | 5.49   |
| 2098419  | 24 AWG | .0213"    | 205          | -30° – 130°C | 6.95   | 6.49   | 5.95   |
| 2119347  | 26 AWG | .0169"    | 328          | -30° – 155°C | 7.95   | 7.25   | 6.49   |
| 2119355  | 28 AWG | .0136"    | 520          | -30° – 155°C | 8.95   | 7.95   | 7.25   |
| 2119363  | 30 AWG | .0109"    | 825          | -30° – 155°C | 9.49   | 8.49   | 7.49   |

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 197.



## Coaxial Cable

JAMECO ValuePro

★ Web Code: CLC

Common Coax Cables: RG-#/U (RG = Radio Grade; U = Universal)

RG-6: CATV/SAT, 18 AWG Coax, 75Ω

RG-8: Amateur radio; thicker than RG-6, 50Ω

RG-58: Radio communication, amateur radio, 50Ω

RG-59: Baseband video in CCTV, low shielding, 75Ω

RG-174: WiFi pigtailed, more flexible but higher loss than RG-58, 50Ω

• Color: black • PVC jacket

| Part No. | Mfr. | Product No.   | Fig. | Length      | AWG         | Type     | Nom. Imp (Ω) | Insul. | Bare Copper | Braid Shield       | Pricing |        |
|----------|------|---------------|------|-------------|-------------|----------|--------------|--------|-------------|--------------------|---------|--------|
|          |      |               |      |             |             |          |              |        |             |                    | 1       | 5      |
| 233269   | BDN  | 9116 010100   | 1    | 100' Reel   | 18 Solid    | Series 6 | 75           | B      | 0.040"      | 60 <sup>3</sup>    | \$10.95 | \$9.95 |
| 232733   | BDN  | 1189A 010100  | 2    | 100' Reel   | 18 Solid    | Series 6 | 75           | B      | 0.040"      | 60/40 <sup>2</sup> | 13.95   | 12.95  |
| 732751   | BDN  | 8214 010100   | 4    | 100' Reel   | 11 Stranded | RG8/U    | 50           | A      | 0.108"      | 97                 | 159.95  | 145.95 |
| 732769   | BDN  | 8214 010500   | 4    | 500' Reel   | 11 Stranded | RG8/U    | 50           | A      | 0.108"      | 97                 | 599.95  | 579.95 |
| 232776   | BDN  | 8214 0101000+ | 4    | 1000' Reel  | 11 Stranded | RG8/U    | 50           | A      | 0.108"      | 97                 | 649.95  | 629.95 |
| 732865   | BDN  | 8237 0101000  | 4    | 1000' Reel  | 13 Stranded | RG8/U    | 52           | A      | 0.085"      | 97                 | 899.95  | —      |
| 232813   | BDN  | 8219 010100   | 6    | 100' Reel   | 20 Stranded | RG58A/U  | 53.5         | A      | 0.037"      | 96                 | 34.95   | 33.95  |
| 644754   | JVP  | RG58/U-100    | 5    | 100' Reel   | 20 Solid    | RG58/U   | 50           | A      | 0.015"      | 38                 | 14.95   | 13.95  |
| 644762   | JVP  | RG58/U-1000   | 5    | 1000' Reel  | 20 Solid    | RG58/U   | 50           | A      | 0.015"      | 38                 | 109.95  | 99.95  |
| 234158   | BDN  | 543945 010100 | 7    | 100' Reel   | 20 Solid    | RG59/U   | 75           | C      | 0.145"      | 95                 | 17.95   | 15.95  |
| 234086   | BDN  | 1505A 010100  | 3    | 100' Reel   | 20 Solid    | RG59/U   | 75           | B      | 0.032"      | 98 <sup>1</sup>    | 34.95   | 32.95  |
| 232961   | BDN  | 8281 010100   | 4    | 100' Reel   | 20 Solid    | RG59/U   | 75           | A      | 0.031"      | 98                 | 44.95   | 39.95  |
| 734161   | BDN  | 543945 010500 | 7    | 500' Reel   | 20 Solid    | RG59/U   | 75           | C      | 0.145"      | 95                 | 79.95   | 74.95  |
| 732980   | BDN  | 8281 010500   | 4    | 500' Reel   | 20 Solid    | RG59/U   | 75           | A      | 0.031"      | 98                 | 349.95  | 329.95 |
| 734088   | BDN  | 1505A 010100  | 3    | 1000' Reel  | 20 Solid    | RG59/U   | 75           | B      | 0.032"      | 98 <sup>1</sup>    | 329.95  | 319.95 |
| 732988   | BDN  | 8281 0101000  | 4    | 1000' Reel  | 20 Solid    | RG59/U   | 75           | A      | 0.031"      | 98                 | 899.95  | —      |
| 644797   | JVP  | RG59/U-100    | 5    | 100' Reel   | 22 Solid    | RG59/U   | 75           | A      | 0.005"      | 31                 | 11.95   | 10.95  |
| 644800   | JVP  | RG59/U-1000   | 5    | 1000' Reel  | 22 Solid    | RG59/U   | 75           | A      | 0.005"      | 31                 | 74.95   | 69.95  |
| 232653   | BDN  | 9259 010100   | 4    | 100' Reel   | 22 Stranded | RG59/U   | 75           | A      | 0.030"      | 95                 | 34.95   | 29.95  |
| 734071   | BDN  | 9259 010U500  | 4    | 500' Unreel | 22 Stranded | RG59/U   | 75           | A      | 0.030"      | 95                 | 169.95  | 159.95 |
| 644818   | JVP  | RG174/U-100   | 6    | 100' Reel   | 26 Stranded | RG174/U  | 50           | A      | 0.020"      | 98                 | 19.95   | 18.95  |
| 644826   | JVP  | RG174/U-1000  | 6    | 1000' Reel  | 26 Stranded | RG174/U  | 50           | A      | 0.020"      | 98                 | 179.95  | 169.95 |
| 234135   | BDN  | 8218 010U100  | 5    | 100' Reel   | 27 Stranded | Video    | 75           | A      | 0.017"      | 93                 | 34.95   | 29.95  |
| 734173   | BDN  | 8218 0101000  | 5    | 1000' Reel  | 27 Stranded | Video    | 75           | A      | 0.017"      | 93                 | 349.95  | 339.95 |



Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6



Fig. 7

A = Polyethylene  
B = Gas Injected Foam HDPE  
C = Polyolefin  
1 = With DuoFoil shield  
2 = Duobond IV shield  
3 = Duobond II + Aluminum Braid Shield

Wire & Cable



## Multi-Conductor Cable

JAMECO ValuePro

★ Web Code: MCC

| Part No. | Mfr. | Product No.   | Fig. | AWG (stranded)                | # of Cond. | Length       | Jacket     | Wire Color             | Insul. | Nom. O.D. | Pricing |         |
|----------|------|---------------|------|-------------------------------|------------|--------------|------------|------------------------|--------|-----------|---------|---------|
|          |      |               |      |                               |            |              |            |                        |        |           | 1       | 5       |
| 732996   | BDN  | 8442 060100   | 1    | 22 <sup>1</sup>               | 2          | 100' Reel    | Chrome/PVC | Black, Red             | A      | 0.170"    | \$29.95 | \$26.95 |
| 733008   | BDN  | 8442 060500   | 1    | 22 <sup>1</sup>               | 2          | 500' Reel    | Chrome/PVC | Black, Red             | A      | 0.170"    | 109.95  | 99.95   |
| 734054   | BDN  | 8442 060U1000 | 1    | 22 <sup>1</sup>               | 2          | 1000' Unreel | Chrome/PVC | Black, Red             | A      | 0.170"    | 199.95  | 189.95  |
| 733024   | BDN  | 8443 060100   | 2    | 22 <sup>1</sup>               | 3          | 100' Reel    | Chrome/PVC | Black, Red, Green      | A      | 0.172"    | 34.95   | 32.95   |
| 733032   | BDN  | 8443 060500   | 2    | 22 <sup>1</sup>               | 3          | 500' Reel    | Chrome/PVC | Black, Red, Green      | A      | 0.172"    | 139.95  | 135.95  |
| 733059   | BDN  | 8444 060100   | 3    | 22 <sup>1</sup>               | 4          | 100' Reel    | Chrome/PVC | Blk, Red, Wh, Grn      | A      | 0.185"    | 44.95   | 42.95   |
| 733067   | BDN  | 8444 060500   | 3    | 22 <sup>1</sup>               | 4          | 500' Reel    | Chrome/PVC | Blk, Red, Wh, Grn      | A      | 0.185"    | 179.95  | 169.95  |
| 733083   | BDN  | 8445 060100   | 4    | 22 <sup>1</sup>               | 5          | 100' Reel    | Chrome/PVC | Blk, Red, Wh, Grn, Brn | A      | 0.194"    | 54.95   | 49.95   |
| 733104   | BDN  | 8445 060100   | 4    | 22 <sup>1</sup>               | 5          | 1000' Reel   | Chrome/PVC | Blk, Red, Wh, Grn, Brn | A      | 0.194"    | 349.95  | 339.95  |
| 733201   | BDN  | 8770 060100   | 5    | 18/20 drain wire <sup>2</sup> | 3          | 100' Reel    | Chrome/PVC | Black, Red, Clear      | B      | 0.246"    | 59.95   | 57.95   |
| 733227   | BDN  | 8770 0601000  | 5    | 18/20 drain wire <sup>2</sup> | 3          | 1000' Reel   | Chrome/PVC | Black, Red, Clear      | B      | 0.246"    | 599.95  | 579.95  |
| 733235   | BDN  | 8771 060100   | 5    | 22/22 drain wire <sup>2</sup> | 3          | 100' Reel    | Chrome/PVC | Black, Red, Clear      | B      | 0.199"    | 39.95   | 37.95   |
| 644383   | JVP  | SC4-25        | 6    | 24 drain wire <sup>3</sup>    | 4          | 25' Reel     | Gray/PVC   | Multi-Colored          | A      | 0.200"    | 6.95    | 6.25    |
| 644391   | JVP  | SC4-100       | 6    | 24 drain wire <sup>3</sup>    | 4          | 100' Reel    | Gray/PVC   | Multi-Colored          | A      | 0.200"    | 24.95   | 22.49   |
| 644404   | JVP  | SC4-1000      | 6    | 24 drain wire <sup>3</sup>    | 4          | 1000' Reel   | Gray/PVC   | Multi-Colored          | A      | 0.200"    | 179.95  | 169.95  |
| 644412   | JVP  | SC-925        | 6    | 24 drain wire <sup>3</sup>    | 9          | 25' Unreel   | Gray/PVC   | Multi-Colored          | A      | 0.230"    | 14.95   | 12.95   |
| 644421   | JVP  | SC9-100       | 6    | 24 drain wire <sup>3</sup>    | 9          | 100' Reel    | Gray/PVC   | Multi-Colored          | A      | 0.230"    | 44.95   | 39.95   |
| 644439   | JVP  | SC9-1000      | 6    | 24 drain wire <sup>3</sup>    | 9          | 1000' Reel   | Gray/PVC   | Multi-Colored          | A      | 0.230"    | 349.95  | 329.95  |
| 644447   | JVP  | SC15-25       | 6    | 24 drain wire <sup>3</sup>    | 15         | 25' Unreel   | Gray/PVC   | Multi-Colored          | A      | 0.280"    | 24.95   | 22.95   |
| 644455   | JVP  | SC15-100      | 6    | 24 drain wire <sup>3</sup>    | 15         | 100' Reel    | Gray/PVC   | Multi-Colored          | A      | 0.280"    | 49.95   | 44.95   |
| 644463   | JVP  | SC15-1000     | 6    | 24 drain wire <sup>3</sup>    | 15         | 1000' Reel   | Gray/PVC   | Multi-Colored          | A      | 0.280"    | 399.95  | 379.95  |
| 644471   | JVP  | SC25-25       | 6    | 24 drain wire <sup>3</sup>    | 25         | 25' Unreel   | Gray/PVC   | Multi-Colored          | A      | 0.370"    | 29.95   | 26.95   |
| 644480   | JVP  | SC25-100      | 6    | 24 drain wire <sup>3</sup>    | 25         | 100' Reel    | Gray/PVC   | Multi-Colored          | A      | 0.370"    | 89.95   | 85.95   |
| 2006377  | JVP  | SC25-500      | 6    | 24 drain wire <sup>3</sup>    | 25         | 500' Unreel  | Gray/PVC   | Multi-Colored          | A      | 0.370"    | 399.95  | 379.95  |



Fig. 1



Fig. 2

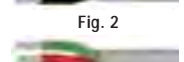


Fig. 3

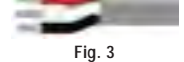


Fig. 4



Fig. 5

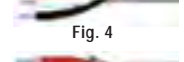


Fig. 6

1 = Unshielded  
2 = Overall Beldfoil Shield  
3 = 100 Aluminum Mylar Shield  
A = PVC B = Polyethylene  
Blk = Black Brn = Brown  
Grn = Green Wh = White

\* BDN = Belden | JVP = Jameco ValuePro

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above



Order by Phone 24/7 at 1-800-831-4242 or Online at [www.Jameco.com](http://www.Jameco.com)

# Paired & Flat Ribbon Cable

| 3 LEVELS OF SAVINGS |              |                 |
|---------------------|--------------|-----------------|
| NAME BRANDS         | HOUSE BRANDS | FACTORY OVERRUN |



## Paired Cable

\*Web Code: HCS

| Part No. | Product No.    | Fig. | AWG/Drain Wire | # of Pairs | Length      | Jacket     | Wire Color                                       | Insul. | Pricing |         |
|----------|----------------|------|----------------|------------|-------------|------------|--|--------|---------|---------|
|          |                |      |                |            |             |            |  |        | 1       | 5       |
| 733172   | 8720 060100R   | 1    | 14 / 16        | 1          | 100' Reel   | Chrome/PVC | Black/Clear                                      | B      | \$84.95 | \$79.95 |
| 733190   | 8720 060500R   | 1    | 14 / 16        | 1          | 500' Reel   | Chrome/PVC | Black/Clear                                      | B      | 369.95  | 349.95  |
| 734066   | 8720 060U500R  | 1    | 14 / 16        | 1          | 500' Unreel | Chrome/PVC | Black/Clear                                      | B      | 369.95  | 349.95  |
| 233146   | 8714 060100    | 1    | 16 / 18        | 1          | 100' Reel   | Chrome/PVC | Black/Clear                                      | B      | 69.95   | 63.95   |
| 734065   | 8719 060U500R  | 1    | 16 / 18        | 1          | 500' Unreel | Chrome/PVC | Black/Clear                                      | B      | 259.95  | 239.95  |
| 733163   | 8719 0601000R  | 1    | 16 / 18        | 1          | 1000' Reel  | Chrome/PVC | Black/Clear                                      | B      | 549.95  | 529.95  |
| 734185   | 8790 060100R   | 1    | 18 / 24        | 1          | 100' Reel   | Chrome/PVC | Black/Clear                                      | B      | 41.95   | 39.95   |
| 234194   | 8762 060100    | 1    | 20 / 20        | 1          | 100' Reel   | Chrome/PVC | Black/Clear                                      | B      | 29.95   | 26.95   |
| 734197   | 8762 060500R   | 1    | 20 / 20        | 1          | 500' Reel   | Chrome/PVC | Black/Clear                                      | B      | 129.95  | 119.95  |
| 733112   | 8451 010100R   | 3    | 22 / 22        | 1          | 100' Reel   | Black/PVC  | Black/Red  | A      | 26.95   | 24.95   |
| 734063   | 8451 010U500R  | 3    | 22 / 22        | 1          | 500' Unreel | Black/PVC  | Black/Red  | A      | 129.95  | 115.95  |
| 734180   | 8723 060100R   | 2    | 22 / 24        | 2          | 100' Reel   | Chrome/PVC | Black/Red, Green/White                           | A      | 49.95   | 46.95   |
| 734184   | 8723 060U500R  | 2    | 22 / 24        | 2          | 500' Unreel | Chrome/PVC | Black/Red, Green/White                           | A      | 199.95  | 189.95  |
| 734181   | 8723 0601000R  | 2    | 22 / 24        | 2          | 1000' Reel  | Chrome/PVC | Black/Red, Green/White                           | A      | 399.95  | 379.95  |
| 734179   | 1419A 060100R  | 4    | 24 / 24        | 2          | 100' Reel   | Chrome/PVC | Wh/Blue Str, Blue/Wh Str, Wh/Org Str, Org/Wh Str | D      | 29.95   | 26.95   |
| 734085   | 1419A 0601000R | 4    | 24 / 24        | 2          | 1000' Reel  | Chrome/PVC | Wh/Blue Str, Blue/Wh Str, Wh/Org Str, Org/Wh Str | D      | 279.95  | 259.95  |



A = Polypropylene  
B = Polyethylene  
C = Semi-rigid PVC  
D = Datalene E = Standard PVC  
Wh = White Blk = Black  
Org = Orange Str = Stripe

Wire & Cable



## Flat Ribbon Cable

### Gray Cable — 28AWG (7 x 36)

\*Web Code: WBX

- Insulation: polyvinyl chloride (PVC)
- Single edge red stripe for pin 1 orientation

| Part No. | Cross Ref. No.   | Conductors | Length          | 1      | 5      | 25     |
|----------|------------------|------------|-----------------|--------|--------|--------|
| 643794   | 171-10-10R       | 10         | 10' .....       | \$2.79 | \$2.49 | \$2.19 |
| 643807   | 171-10-25R       | 10         | 25' .....       | 5.49   | 5.25   | 4.99   |
| 643815   | 171-10-100R      | 10         | 100' reel ..... | 17.95  | 15.95  | 14.95  |
| 689311   | 9L2801000RH*     | 10         | 100' reel ..... | 25.95  | 23.95  | 21.95  |
| 643831   | 171-16-10R       | 16         | 10' .....       | 3.95   | 3.59   | 3.29   |
| 643840   | 171-16-25R       | 16         | 25' .....       | 7.95   | 6.95   | 6.29   |
| 643858   | 171-16-100R      | 16         | 100' reel ..... | 23.95  | 21.95  | 19.95  |
| 643874   | 171-20-10R       | 20         | 10' .....       | 3.95   | 3.59   | 3.29   |
| 643882   | 171-20-25R       | 20         | 25' .....       | 8.95   | 7.95   | 6.95   |
| 643891   | 171-20-100R      | 20         | 100' reel ..... | 32.95  | 29.95  | 26.95  |
| 643911   | 171-25-10R       | 25         | 10' .....       | 4.95   | 4.49   | 3.95   |
| 643920   | 171-25-25R       | 25         | 25' .....       | 10.95  | 8.95   | 7.95   |
| 643938   | 171-25-100R      | 25         | 100' reel ..... | 36.95  | 33.95  | 29.95  |
| 643962   | 171-26-10R       | 26         | 10' .....       | 5.95   | 5.49   | 4.95   |
| 643971   | 171-26-25R       | 26         | 25' .....       | 11.95  | 10.95  | 9.95   |
| 643989   | 171-26-100R      | 26         | 100' reel ..... | 39.95  | 36.95  | 33.95  |
| 644033   | 171-34-10R       | 34         | 10' .....       | 6.49   | 5.95   | 5.49   |
| 644041   | 171-34-25        | 34         | 25' .....       | 12.95  | 11.95  | 10.95  |
| 644050   | 171-34-100R      | 34         | 100' reel ..... | 51.95  | 49.95  | 47.95  |
| 644076   | 171-37-10R       | 37         | 10' .....       | 6.95   | 6.29   | 5.59   |
| 644084   | 171-37-25R       | 37         | 25' .....       | 12.95  | 11.95  | 10.95  |
| 644092   | 171-37-100R      | 37         | 100' reel ..... | 49.95  | 44.95  | 42.95  |
| 644113   | 171-40-10R       | 40         | 10' .....       | 7.95   | 6.95   | 6.29   |
| 644121   | 171-40-25R       | 40         | 25' .....       | 15.95  | 14.49  | 12.95  |
| 644130   | 171-40-100R      | 40         | 100' reel ..... | 55.95  | 52.95  | 49.95  |
| 644156   | 171-50-10R       | 50         | 10' .....       | 8.95   | 7.95   | 6.95   |
| 644164   | 171-50-25R       | 50         | 25' .....       | 17.95  | 16.49  | 14.95  |
| 644172   | 171-50-100R      | 50         | 100' reel ..... | 59.95  | 56.95  | 52.95  |
| 689426   | 9L28050008H100R* | 50         | 100' reel ..... | 119.95 | 109.95 | 99.95  |
| 644199   | 171-60-10R       | 60         | 10' .....       | 9.95   | 8.95   | 7.95   |
| 644201   | 171-60-25R       | 60         | 25' .....       | 17.95  | 16.95  | 14.95  |
| 644210   | 171-60-100R      | 60         | 100' reel ..... | 64.95  | 59.95  | 54.95  |

\*Belden: -40°C to +105°C

• Prepackaged and priced in lengths listed below

### Multicolor Cable — 28AWG (7 x 36)

- Standard 10-color repeat sequence
- Voltage rating: 300V • Stranded copper wire
- Center spacing: 0.05" • Temp. rating: -20°C to +80°C

| Part No. | Cross Ref. No. | Conductors | Length          | 1      | 5      | 25     |
|----------|----------------|------------|-----------------|--------|--------|--------|
| 639672   | 28RC10-10R     | 10         | 10' .....       | \$3.95 | \$3.59 | \$3.19 |
| 643508   | 28RC10-25R     | 10         | 25' .....       | 8.95   | 7.95   | 6.95   |
| 643516   | 28RC10-100R    | 10         | 100' reel ..... | 29.95  | 27.95  | 24.95  |
| 643532   | 28RC16-10R     | 16         | 10' .....       | 5.95   | 5.49   | 4.95   |
| 643541   | 28RC16-25R     | 16         | 25' .....       | 12.95  | 11.95  | 10.95  |
| 643559   | 28RC16-100R    | 16         | 100' reel ..... | 49.95  | 44.95  | 39.95  |
| 643575   | 28RC20-10R     | 20         | 10' .....       | 6.95   | 6.49   | 5.95   |
| 643583   | 28RC20-25R     | 20         | 25' .....       | 16.95  | 15.49  | 13.95  |
| 643591   | 28RC20-100R    | 20         | 100' reel ..... | 64.95  | 59.95  | 54.95  |
| 643612   | 28RC25-10R     | 25         | 10' .....       | 8.95   | 7.95   | 6.95   |
| 643621   | 28RC25-25R     | 25         | 25' .....       | 22.95  | 20.95  | 18.95  |
| 643639   | 28RC25-100R    | 25         | 100' reel ..... | 69.95  | 64.95  | 59.95  |
| 643655   | 28RC34-10R     | 34         | 10' .....       | 10.95  | 9.95   | 8.95   |
| 643663   | 28RC34-25R     | 34         | 25' .....       | 25.95  | 23.95  | 21.95  |
| 643671   | 28RC34-100R    | 34         | 100' reel ..... | 89.95  | 84.95  | 79.95  |
| 643698   | 28RC40-10R     | 40         | 10' .....       | 12.95  | 11.95  | 10.95  |
| 643701   | 28RC40-25R     | 40         | 25' .....       | 33.95  | 29.95  | 26.95  |
| 643719   | 28RC40-100R    | 40         | 100' reel ..... | 119.95 | 109.95 | 99.95  |
| 643735   | 28RC50-10R     | 50         | 10' .....       | 19.95  | 17.95  | 15.95  |
| 643743   | 28RC50-25R     | 50         | 25' .....       | 39.95  | 36.95  | 33.95  |
| 643751   | 28RC50-100R    | 50         | 100' reel ..... | 145.95 | 135.95 | 129.95 |

⚡ Blue Part No. = Limited Quantity Available

### Flat Ribbon Cable – Gray

\*Web Code: WBX

#### .100" (2.54mm) — 24AWG

- Capacitance: 31pF/m
- Insulation resis.: 100MΩ • Temp. rating: 105°C
- Insulation material: 7mm polyvinyl chloride (PVC) gray

| Part No. | Mfr.     | Cross Ref.  | Conductor | Length     | 1      | 5      | 25     |
|----------|----------|-------------|-----------|------------|--------|--------|--------|
| 363813   | Various  | H24G-10-10  | 10        | 10' .....  | \$9.95 | \$8.95 | \$7.95 |
| 363856   | ValuePro | H24G-10-100 | 10        | 100' ..... | 69.95  | 63.95  | 59.95  |

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 197.







## Speaker Cable

★ Web Code: JCS



| Part No. | Product No.   | Length       | AWG         | Color | 1        | 5        |
|----------|---------------|--------------|-------------|-------|----------|----------|
| 734081   | 9708 368U1000 | 1000' Unreel | 18 Stranded | Clear | \$349.95 | \$329.95 |
| 232602   | 9717 368100   | 100' Reel    | 14 Stranded | Clear | 39.95    | 35.95    |
| 733430   | 9717 368500   | 500' Reel    | 14 Stranded | Clear | 329.95   | 299.95   |
| 232629   | 9718 368100   | 100' Reel    | 12 Stranded | Clear | 54.95    | 49.95    |
| 732646   | 9718 3681000  | 1000' Reel   | 12 Stranded | Clear | 819.95   | 799.95   |



## 2-Conductor Power/Speaker Cable – 24 AWG

- Black wire with white polarity stripe
- Temperature rating: 20°C to 60°C
- Stranded copper wire (7 x 32)
- Operating voltage: 300V



★ Web Code: VAL

| Part No. | Product No. | Length | 1      | 5      | 10     |
|----------|-------------|--------|--------|--------|--------|
| 100280   | CAR45B-100  | 100'   | \$7.95 | \$7.25 | \$6.49 |
| 100299   | CAR45B-1K   | 1000'  | 54.95  | 49.95  | 46.95  |



## Category 5e Network Cable

★ Web Code: KCG



### 24 AWG UTP Category 5e Enhanced - 350MHz (Non-Plenum)

| Part No. | *Mfr. | Product No.      | Length | Color | Description | 1      | 5      |
|----------|-------|------------------|--------|-------|-------------|--------|--------|
| 645714   | JVP   | 10X5-704TH-25VP  | 25'    | Blue  | Solid       | \$3.95 | \$3.49 |
| 645722   | JVP   | 10X5-704TH-100VP | 100'   | Blue  | Solid       | 13.95  | 12.49  |
| 645731   | JVP   | 10X5-704TH-1000  | 1000'  | Blue  | Solid       | 119.95 | 109.95 |
| 644543   | JVP   | 10X5-701TH-25VP  | 25'    | Gray  | Solid       | 3.49   | 3.25   |
| 644551   | JVP   | 10X5-701TH-100   | 100'   | Gray  | Solid       | 13.95  | 12.49  |
| 644560   | JVP   | 10X5-701TH-1000  | 1000'  | Gray  | Solid       | 119.95 | 109.95 |
| 644607   | JVP   | 10X5-804TH-25    | 25'    | Blue  | Stranded    | 4.95   | 4.49   |
| 644615   | JVP   | 10X5-804TH-100   | 100'   | Blue  | Stranded    | 15.95  | 13.49  |
| 644623   | JVP   | 10X5-804TH-1000  | 1000'  | Blue  | Stranded    | 125.95 | 109.95 |
| 645773   | JVP   | 10X5-802TH-25    | 25'    | Black | Stranded    | 3.95   | 3.49   |
| 645781   | JVP   | 10X5-802TH-100   | 100'   | Black | Stranded    | 15.95  | 13.49  |
| 645790   | JVP   | 10X5-802TH-1000  | 1000'  | Black | Stranded    | 125.95 | 109.95 |
| 644586   | JVP   | 10X5-801TH-100   | 100'   | Gray  | Stranded    | 15.95  | 13.49  |
| 644594   | JVP   | 10X5-801TH-1000  | 1000'  | Gray  | Stranded    | 125.95 | 109.95 |
| 645749   | JVP   | 10X5-805TH-25VP  | 25'    | Red   | Stranded    | 4.95   | 4.49   |

### 24 AWG UTP Category 5e Enhanced - 350MHz (Plenum)

| Part No. | *Mfr. | Product No.    | Length       | Color   | Description | 1       | 5       |
|----------|-------|----------------|--------------|---------|-------------|---------|---------|
| 734097   | BDN   | 1585A D15100   | 100'         | Blue    | Solid       | \$19.95 | \$17.95 |
| 734093   | BDN   | 1585A 877100   | 100'         | Natural | Solid       | 24.95   | 22.95   |
| 734094   | BDN   | 1585A 8771000  | 1000'        | Natural | Solid       | 229.95  | 209.95  |
| 734096   | BDN   | 1585A 877U1000 | 1000' Unreel | Natural | Solid       | 229.95  | 209.95  |
| 1942121  | BDN   | 1501A 0091000  | 1000'        | White   | Solid       | 229.95  | 209.95  |
| 1941970  | BDN   | 1701A 0091000  | 1000'        | White   | Solid       | 329.95  | 309.95  |

\*Bonded

## Cat 5e/6 Network Crossover Cables

- Connect 2 PCs without a hub
- Strain relief RJ45 connectors
- 4-pair • 8P8C • UTP

★ Web Code: CAE



| Part No. | *Mfr. | Length | Description   | 1      | 10     | 100    |
|----------|-------|--------|---------------|--------|--------|--------|
| 2115573  | BEL   | 3 ft.  | Cat 5e red    | \$2.49 | \$2.19 | \$1.95 |
| 681109   | ♦     | 3 ft.  | Cat 5e gray   | 2.49   | 2.19   | 1.95   |
| 302041   | JVP   | 7 ft.  | Cat 5e gray   | 3.75   | 3.35   | 2.95   |
| 685812   | ♦     | 7 ft.† | Cat 5e yellow | 3.75   | 3.35   | 2.95   |
| 169261   | JVP   | 10 ft. | Cat 5e gray   | 6.95   | 6.25   | 5.65   |
| 203781   | JVP   | 12 ft. | Cat 5e black  | 2.95   | 2.65   | 2.35   |
| 679762   | ♦     | 3 ft.  | Cat 6 gray    | 2.95   | 2.65   | 2.35   |
| 681096   | ♦     | 7 ft.  | Cat 6 gray    | 3.75   | 3.35   | 2.95   |

† Without snagless boot

## Network Cables

★ Web Code: BBK

### Category 6

- Gold over nickel contacts
- With RJ45 plugs and molded strain reliefs
- Assembled using ETL verified 24AWG stranded cable
- Exceeds performance levels as specified in TIA/EIA 568B.2-1 category 6



| Part No. | Length | Color  | 1      | 10     | 50     |
|----------|--------|--------|--------|--------|--------|
| 2115581  | 1 ft.  | Gray   | \$2.25 | \$1.95 | \$1.75 |
| 219707   | 3 ft.  | Gray   | 2.25   | 1.95   | 1.75   |
| 219715   | 7 ft.  | Gray   | 3.25   | 2.95   | 2.49   |
| 219723   | 14 ft. | Gray   | 6.25   | 5.49   | 4.95   |
| 219731   | 25 ft. | Gray   | 8.95   | 7.95   | 6.95   |
| 219740   | 50 ft. | Gray   | 13.95  | 12.55  | 10.95  |
| 219854   | 3 ft.  | Blue   | 2.49   | 2.25   | 1.95   |
| 219862   | 7 ft.  | Blue   | 3.25   | 2.95   | 2.49   |
| 219871   | 14 ft. | Blue   | 6.25   | 5.49   | 4.95   |
| 219889   | 25 ft. | Blue   | 8.95   | 7.95   | 6.95   |
| 219897   | 50 ft. | Blue   | 13.95  | 12.55  | 10.95  |
| 220003   | 3 ft.  | White  | 2.25   | 1.95   | 1.75   |
| 220011   | 7 ft.  | White  | 2.95   | 2.65   | 2.35   |
| 220046   | 50 ft. | White  | 10.95  | 10.49  | 9.49   |
| 2115602  | 1 ft.  | Red    | 2.25   | 1.95   | 1.75   |
| 219900   | 3 ft.  | Red    | 2.25   | 1.95   | 1.75   |
| 219918   | 7 ft.  | Red    | 3.25   | 2.95   | 2.49   |
| 219934   | 25 ft. | Red    | 7.95   | 7.49   | 6.95   |
| 219942   | 50 ft. | Red    | 12.49  | 11.49  | 9.95   |
| 219803   | 3 ft.  | Green  | 2.25   | 1.95   | 1.75   |
| 219811   | 7 ft.  | Green  | 3.25   | 2.95   | 2.49   |
| 219820   | 14 ft. | Green  | 6.25   | 5.49   | 4.95   |
| 219766   | 7 ft.  | Black  | 3.25   | 2.95   | 2.49   |
| 219782   | 25 ft. | Black  | 7.95   | 7.49   | 6.95   |
| 219791   | 50 ft. | Black  | 11.95  | 10.49  | 9.49   |
| 2115590  | 1 ft.  | Yellow | 2.25   | 1.95   | 1.75   |
| 219969   | 7 ft.  | Yellow | 3.25   | 2.95   | 2.49   |
| 219993   | 50 ft. | Yellow | 12.95  | 12.49  | 10.95  |

### Category 5e

★ Web Code: CAE



| Part No. | Length | Color  | 1      | 10     | 100    |
|----------|--------|--------|--------|--------|--------|
| 168292   | 3 ft.  | Gray   | \$1.55 | \$1.39 | \$1.25 |
| 168305   | 7 ft.  | Gray   | 2.25   | 1.95   | 1.75   |
| 168313   | 15 ft. | Gray   | 3.95   | 3.55   | 2.95   |
| 168321   | 25 ft. | Gray   | 6.75   | 5.95   | 5.35   |
| 201777   | 3 ft.  | Red    | 1.55   | 1.39   | 1.25   |
| 201785   | 7 ft.  | Red    | 2.25   | 1.95   | 1.75   |
| 201793   | 15 ft. | Red    | 3.95   | 3.55   | 2.95   |
| 201806   | 25 ft. | Red    | 6.49   | 5.95   | 5.35   |
| 201697   | 3 ft.  | Black  | 1.55   | 1.39   | 1.25   |
| 201700   | 7 ft.  | Black  | 2.25   | 1.95   | 1.75   |
| 201718   | 15 ft. | Black  | 3.95   | 3.55   | 2.95   |
| 201726   | 25 ft. | Black  | 6.75   | 5.95   | 5.35   |
| 201734   | 3 ft.  | Blue   | 1.55   | 1.39   | 1.25   |
| 1945381  | 5 ft.  | Blue   | 1.95   | 1.75   | 1.65   |
| 201742   | 7 ft.  | Blue   | 2.25   | 1.95   | 1.75   |
| 1945401  | 10 ft. | Blue   | 3.49   | 3.15   | 2.75   |
| 201751   | 15 ft. | Blue   | 3.95   | 3.55   | 2.95   |
| 201769   | 25 ft. | Blue   | 6.75   | 5.95   | 5.35   |
| 522845   | 50 ft. | Blue   | 7.95   | 6.95   | 6.25   |
| 201814   | 3 ft.  | Yellow | 1.55   | 1.39   | 1.25   |
| 1945372  | 5 ft.  | Yellow | 1.95   | 1.75   | 1.65   |
| 201822   | 7 ft.  | Yellow | 2.25   | 1.95   | 1.75   |
| 1945399  | 10 ft. | Yellow | 3.49   | 3.15   | 2.75   |
| 201831   | 15 ft. | Yellow | 3.95   | 3.55   | 2.95   |
| 201849   | 25 ft. | Yellow | 6.49   | 5.95   | 5.35   |

\*BDN = Belden | BEL = Belkin | JVP = Jameco ValuePro | ♦ Manufacturer Varies

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# Modular Cables, Plugs, Jacks & Accessories

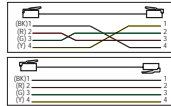
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## Modular Telephone/Printer Sharing Cables (Gray)

- RJ11 – 6P4C for telephone or network
- RJ11 – 6P6C for telephone or printer sharing
- RJ45 – 8P8C for telephone or modem-dial-up use

Style 1 – Reverse wiring for telephone systems

Style 2 – Straight wiring for networking/printer sharing



| Part No. | Conn. Style | Type      | Length | Pricing |        |        |
|----------|-------------|-----------|--------|---------|--------|--------|
|          |             |           |        | 1       | 10     | 100    |
| 196227   | 1           | RJ11-6P4C | 7ft.   | \$1.75  | \$1.59 | \$1.39 |
| 115554   | 2           | RJ11-6P4C | 7ft.   | 1.75    | 1.59   | 1.39   |
| 115545   | 1           | RJ11-6P4C | 25ft.  | 2.95    | 2.65   | 2.35   |
| 201232   | 2           | RJ11-6P4C | 35ft.  | 1.75    | 1.59   | 1.39   |
| 115588   | 1           | RJ11-6P6C | 7ft.   | 1.49    | 1.35   | 1.19   |
| 115617   | 2           | RJ11-6P6C | 7ft.   | 1.95    | 1.75   | 1.59   |
| 115677   | 2           | RJ45-8P8C | 7ft.   | 1.95    | 1.75   | 1.59   |

## Keystone-Type RJ11 & RJ45 Jacks

Modular Punchdown Type

- CAT 5e classification
- Punchdown type wiring connections with color coding
- Size: 0.57"W x 1.23"D x 0.63"H

| Part No. | *Mfr. | Description | Color  | 1      | 10     | 100    |
|----------|-------|-------------|--------|--------|--------|--------|
| 213517   | +     | 6P6C (RJ11) | White  | \$2.75 | \$2.49 | \$2.25 |
| 195630   | +     | 8P8C (RJ45) | Black  | 2.25   | 1.95   | 1.75   |
| 212951   | +     | 8P8C (RJ45) | Blue   | 2.25   | 1.95   | 1.75   |
| 212944   | +     | 8P8C (RJ45) | White  | 2.95   | 2.65   | 2.39   |
| 636130   | FST   | 8P8C (RJ45) | Almond | 2.49   | 2.25   | 1.95   |
| 615144   | GCE   | Tool-less   | Ivory  | 2.49   | 2.25   | 1.95   |

## RJ45-Plug Color Caps (Boots)

- Round strain relief
- Order in multiples of 10

| Part No. | Color | 10     | 100    | 500    | 1000   |
|----------|-------|--------|--------|--------|--------|
| 204410   | Black | \$1.19 | \$1.17 | \$1.15 | \$1.11 |
| 204353   | Gray  | .19    | .17    | .15    | .11    |
| 204362   | Blue  | .19    | .17    | .15    | .11    |

## Cisco Wall Jack DSL Filter

- Filters out DSL
- Dimension: 4.7" x 3.0"

| Part No. | Description | Color | 1      | 10     |
|----------|-------------|-------|--------|--------|
| 15077    | 6P4C (RJ11) | White | \$2.95 | \$2.65 |

## RJ11 Retractable Cable

This RJ11 cable extends up to 8'. When you pack up, give it a tug and it retracts into its lightweight, rugged case like a windowshade. It's completely tangleproof.

| Part No. | Product No. | 1      | 5      | 25     |
|----------|-------------|--------|--------|--------|
| 233349   | AC29908B    | \$1.09 | \$ .99 | \$ .89 |

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## Modular Plugs

P = No. of positions  
C = No. of contacts



| Part No. | Description                                  | Size (L" x W" x H") | 1    | 10     | 100    | 1000   |
|----------|--|---------------------|------|--------|--------|--------|
| 103491   | 4P4C (RJ14) handset                          | .485 x .30 x .26    | *    | \$1.13 | \$1.12 | \$1.09 |
| 79290    | 6P4C (RJ11)                                  | .487 x .38 x .26    | *    | .14    | .13    | .10    |
| 79273    | 6P6C (RJ11)                                  | .487 x .38 x .26    | .25  | .23    | .20    | .18    |
| 79281    | 8P8C (RJ45) (for stranded wire)              | .845 x .46 x .31    | .47  | .43    | .38    | .29    |
| 119343   | 8P8C (RJ45) unshielded (for solid wire)      | .845 x .46 x .31    | .45  | .39    | .35    | .29    |
| 116611   | 8P8C (RJ45) shielded                         | .866 x .46 x .33    | 1.09 | .99    | .89    | .79    |
| 204231   | 8P8C (RJ45) shielded (for STP stranded wire) | .484 x .455 x .285  | .75  | .69    | .59    | .49    |
| 116602   | 8P8C (RJ45) shielded (for solid wire)        | .845 x .46 x .31    | .99  | .89    | .79    | .59    |
| 180646   | 10P10C (RJ50) for stranded wire              | .849 x .46 x .31    | .49  | .45    | .39    | .35    |
| 524411   | 8P8C, unshielded flat oval solid             | .850 x .464 x .314  | .55  | .49    | .45    | .39    |

## Modular Jacks



| Part No. | *Mfr. | Description   | Panel Mount | Size (L" x W" x H") | 1      | 10     | 100    | 1000   |
|----------|-------|---|-------------|---------------------|--------|--------|--------|--------|
| 115128   | JVP   | 4P4C (RJ14) handset side entry, center latch              | No          | .51 x .40 x .57     | \$4.45 | \$3.99 | \$3.35 | \$2.29 |
| 852836   | AMP   | 4P4C (RJ14) side entry, center latch, flangeless          | No          | .82 x .44 x .63     | .75    | .69    | .59    | .49    |
| 199620   | JVP   | 4P4C (RJ14) handset side entry, center latch              | Yes         | .51 x .55 x .57     | .35    | .29    | .25    | .19    |
| 105945   | JVP   | 6P4C (RJ11) side entry, center latch, top flange          | Yes         | .48 x .48 x .71     | *      | .19    | .17    | .15    |
| 2077781  | JVP   | 6P4C (RJ11) side entry, center latch                      | No          | .72 x .51 x .45     | .45    | .39    | .35    | .29    |
| 151766   | JVP   | 6P4C (RJ11) side entry, center latch                      | Yes         | .80 x .52 x .59     | .65    | .59    | .55    | .49    |
| 524277   | AMP   | 6P6C (RJ11) top entry, center latch, flangeless           | No          | .53 x .64 x .63     | .65    | .59    | .55    | .49    |
| 2077221  | +     | 6P6C (RJ11) side entry, front latch, PCB ground           | Yes         | .73 x .55 x .58     | .69    | .59    | .49    | .45    |
| 115837   | JVP   | 6P6C (RJ11) side entry, center latch                      | Yes         | .51 x .48 x .57     | .85    | .75    | .65    | .59    |
| 204178   | JVP   | 6P6C (RJ11) dual entry, center latch                      | Yes         | .62 x 1.1 x .60     | 1.35   | 1.19   | .99    | .79    |
| 124039   | JVP   | 6P6C (RJ11) top entry, 6" leads, panel mount              | Yes         | .54 x .59 x .72     | 1.25   | 1.09   | .99    | .89    |
| 800315   | MOL   | 6P6C (RJ11) side entry, center latch, unshielded, 4 gangs | No          | .92 x .85 x .52     | 2.95   | 2.65   | 2.39   | 2.15   |
| 852449   | AMP   | 6P6C (RJ25) side entry, center latch, SMT, low profile    | Yes         | .72 x .63 x .50     | .89    | .79    | .69    | .59    |
| 889129   | AMP   | 6P6C (RJ25) top entry, center latch SMT                   | No          | .55 x .53 x .50     | 1.65   | 1.49   | 1.35   | 1.19   |
| 115844   | JVP   | 8P8C (RJ45) side entry, center latch                      | No          | .53 x .60 x .57     | .69    | .59    | .55    | .49    |
| 2078240  | +     | 8P8C (RJ45) side entry, center latch                      | Yes         | .81 x .60 x .59     | .69    | .59    | .49    | .45    |
| 203449   | JVP   | 8P8C (RJ45) side entry, center latch, shielded            | No          | .84 x .63 x .53     | .95    | .85    | .75    | .65    |
| 2078258  | +     | 8P8C (RJ45) side entry, center latch, low profile         | No          | .71 x .60 x .46     | .49    | .45    | .39    | .35    |
| 524461   | AMP   | 8P8C (RJ45) side entry, front latch, low profile          | No          | .72 x .61 x .50     | .55    | .49    | .45    | .39    |
| 2078266  | +     | 8P8C (RJ45) side entry, front latch, low profile          | No          | .68 x .59 x .49     | .49    | .45    | .39    | .35    |
| 1537416  | KYC   | 8P8C (RJ45) side entry, front latch, low profile          | Yes         | .72 x .60 x .50     | .59    | .45    | .35    | .29    |
| 524488   | AMP   | 8P8C (RJ45) top entry, top latch                          | No          | .66 x .62 x .63     | .65    | .59    | .55    | .49    |
| 2077790  | +     | 8P8C (RJ45) top entry, bottom latch                       | Yes         | .64 x .61 x .62     | .59    | .55    | .49    | .45    |

## RS-232-to-RJ11/RJ45 Modular Jack Adapters

Simplify networking applications when changing your RS-232 port to an RJ11 or RJ45 modular jack. Comes with all necessary hardware and wiring.

| Part No. | *Mfr. | Description          | 1      | 10     | 100    |
|----------|-------|----------------------|--------|--------|--------|
| 66181    | JVP   | DB9 M to RJ11 (6P6C) | \$2.49 | \$2.25 | \$1.95 |
| 66191    | JVP   | DB9 M to RJ45 (8P8C) | 2.75   | 2.49   | 2.25   |
| 614977   | GCE   | DB9 M to RJ45 (8P8C) | 2.75   | 2.49   | 2.25   |
| 614985   | GCE   | DB9 F to RJ11 (4P4C) | 1.95   | 1.75   | 1.59   |
| 114738   | JVP   | DB9 F to RJ11 (6P4C) | 2.35   | 2.09   | 1.89   |
| 66203    | JVP   | DB9 F to RJ11 (6P6C) | 2.75   | 2.49   | 2.25   |
| 66212    | JVP   | DB9 F to RJ45 (8P8C) | 2.95   | 2.65   | 2.39   |

| Part No. | *Mfr. | Description            | 1      | 10     | 100    |
|----------|-------|------------------------|--------|--------|--------|
| 615005   | GCE   | DB9 F to RJ45 (8P8C)   | \$2.45 | \$2.19 | \$1.95 |
| 66229    | JVP   | DB25 M to RJ11 (6P6C)  | 2.75   | 2.49   | 2.25   |
| 2099681  | JVP   | DB15 F to RJ-11 (6P6C) | 2.49   | 2.25   | 1.95   |
| 66237    | JVP   | DB25 M to RJ45 (8P8C)  | 1.85   | 1.69   | 1.49   |
| 615021   | GCE   | DB25 M to RJ45 (8P8C)  | 2.75   | 2.49   | 2.25   |
| 204273   | JVP   | DB25F - RJ11 (6P4C)    | .75    | .69    | .65    |
| 66254    | JVP   | DB25 F to RJ45 (8P8C)  | 1.85   | 1.69   | 1.49   |

## EZ-RJ45 Category 5 & 6 Modular Plugs

Strip the wire and insert into the plug & pull out the wire on the other side. This ensures correct conductor order and uniformity in crimping. No wire bar and no wasted cable.

| Part No. | Mfr. | Part No. | Description       | 1      | 10     | 100    | 1000   |
|----------|------|----------|-------------------|--------|--------|--------|--------|
| 158115   |      | 300568EZ | 8P8C CAT5 EZ-Plug | \$1.65 | \$1.49 | \$1.35 | \$1.19 |
| 2099278  |      | 300668EZ | 8P8C CAT6 EZ-Plug | 1.75   | 1.59   | 1.45   | 1.29   |

\* AMP = AMP | FST = FutureSmart | GCE = GC Electronics | JVP = Jameco ValuePro | KYC = Kycon | MOL = Molex | + Manufacturer Varies

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 197.



## Modular Couplers and Adapter

\*Web Code: XAH



Fig. 1  
W: 1.5"  
H: 0.9"  
D: 0.7"



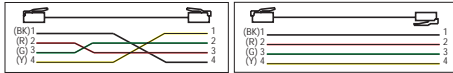
Fig. 2  
W: 1.1"  
H: 0.8"



Fig. 3  
W: 1.7"  
H: 1.0"  
D: 0.9"

Style 1 Reverse wiring for telephone systems

Style 2 Straight wiring for networking/printer sharing



| Part No. | Description                                    | Fig. | Pricing |        |        |
|----------|--|------|---------|--------|--------|
|          |  |      | 1       | 10     | 100    |
| 71757    | 6P6C modular coupler, Style 1, RJ11            | 1    | \$ .95  | \$ .85 | \$ .75 |
| 135087   | 6P6C modular coupler, Style 2, RJ11            | 1    | 1.09    | .99    | .89    |
| 181091   | 6P6C make "T" adapter, Style 2, RJ11           | 2    | .75     | .69    | .59    |
| 118501   | 8P8C modular coupler, Style 1, RJ45            | 1    | 1.75    | 1.55   | 1.39   |
| 135079   | 8P8C modular coupler, Style 2, RJ45            | 1    | 1.39    | 1.25   | 1.15   |
| 153023   | 8P8C modular coupler, Style 2 (for CAT 5) RJ45 | 3    | 7.95    | 7.15   | 6.45   |



## Modular Jack Boxes

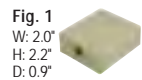


Fig. 1  
W: 2.0"  
H: 2.2"  
D: 0.9"



Fig. 2  
W: 1.5"  
H: 2.4"  
D: 1.1"



Fig. 3  
W: 2.4"  
H: 2.4"  
D: 1.1"

\*Web Code: UAM

| Part No. | Description                                      | Fig. | Pricing |        |        |
|----------|--|------|---------|--------|--------|
|          |  |      | 1       | 10     | 100    |
| 103464   | 6P4C adhesive jack RJ11 (beige)                  | 1    | \$1.25  | \$1.09 | \$ .99 |
| 71984    | 6P6C adhesive jack RJ11 (beige)                  | 1    | 1.39    | 1.25   | 1.15   |
| 71651    | 8P8C adhesive jack RJ45 (beige)                  | 1    | 1.39    | 1.25   | 1.15   |
| 213032   | 8P8C adhesive jack RJ45 (single, white) (CAT 5e) | 2    | 3.49    | 3.15   | 2.85   |
| 213049   | 8P8C adhesive jack RJ45 (dual, white) (CAT 5e)   | 3    | 4.25    | 3.75   | 3.25   |

## Modular Jack Wall Plates



Fig. 1  
W: 2.8"  
H: 4.5"



Fig. 2  
W: 2.8"  
H: 4.7"

| Part No. | Description   | Fig. | Pricing |        |        |
|----------|---|------|---------|--------|--------|
|          |   |      | 1       | 10     | 100    |
| 72311    | 6P6C & 8P8C double wall jack plate w/ jacks (beige) | 1    | \$1.25  | \$1.09 | \$ .95 |
| 319821   | 8P8C quad wall jack plate w/ jacks (white) (CAT 5e) | 2    | 5.95    | 5.49   | —      |



## Professional Modular Connector Crimping Tool

- 6mm and 12mm stripping guide
- Spring return action
- Crimp modular plugs without changing dies
- Crimps 10P10C, RJ45: 8P8C, RJ11 and RJ12: 6P6C, and 4P4C
- Insulated handles • Size: 8.2"L • Weight: 1.2 lbs.



| Part No. | Mfr. Part No. | 1       | 10      | 25      |
|----------|---------------|---------|---------|---------|
| 181148   | HT200         | \$54.95 | \$49.49 | \$44.55 |

For more Hand Tools, see pages 160-163

## Keystone-Type Wall Plates

- Size: 2.8"W x 4.5"H
- RJ45 8P8C



\*Web Code: RBH

| Part No. | No. of ports | Color  | Pricing |        |        |
|----------|--------------|--------|---------|--------|--------|
|          |              |        | 1       | 10     | 100    |
| 636965   | 1            | Almond | \$ .95  | \$ .85 | \$ .75 |
| 212978   | 1            | White  | .95     | .85    | .75    |
| 212960   | 4            | Ivory  | .95     | .85    | .75    |
| 636990   | 2            | White  | .95     | .85    | .75    |
| 195565   | 3            | Ivory  | .95     | .85    | .75    |
| 637028   | 4            | Almond | .95     | .85    | .75    |

## 8P8C In-Line Couplers

- Panel mount thickness: 0.062" nominal
- Housing: black polyphenylene oxide
- Terminals: 0.018" diameter phosphor bronze with 50µ" gold over nickel
- Snaps into 0.595" x 0.765" rectangular wall plate cut-outs



| Part No. | Mfr. | Mfr. Part No. | 1      | 10     | 100    |
|----------|------|---------------|--------|--------|--------|
| 524445   | AMP  | 555052-1      | \$4.75 | \$4.25 | \$3.79 |
| 615048   | GCE  | 45-5439-BU    | 4.49   | 3.95   | 3.49   |

## Rip-Tie Lite Cable Wraps

- Patented one end permanently attaches to the cable and the other end has a pull tab
- Made of the best quality hook and loop touch fastener tested for 10,000 closures with no loss of holding strength



10 per pack

| Part No. | Product No.          | 1      | 5      |
|----------|----------------------|--------|--------|
| 700699   | 1/2"W x 8"L, rainbow | \$9.95 | \$8.95 |
| 700701   | 1/2"W x 8"L, black   | 9.95   | 8.95   |

## 3M Wire Marker Tape Dispensers

Dispenser with ten refillable compartments for marking wire with numbered or colored tape.

- Self-adhesive tapes
- Size: (tape) 96"L x 0.25"W



159231: 1 roll each numbered 0 to 9

| Part No. | Mfr. Part No. | 1       | 10      |
|----------|---------------|---------|---------|
| 159231   | STD-0-9       | \$41.95 | \$37.95 |
| 2099657  | STD-C         | 39.95   | 35.95   |

## Wiring Duct & Cover

- Light gray • Lead free PVC
- 489230:
  - Wide finder slotted wiring duct
  - Standard mounting PC holes
  - Size: 1.75"W x 1.62"H
  - Sold in 6 foot lengths only



| Part No. | Description | 1       | 5       |
|----------|-------------|---------|---------|
| 489230   | Duct        | \$34.95 | \$31.49 |
| 489213   | Cover       | 7.95    | 7.25    |

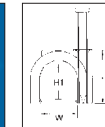
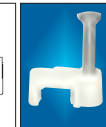
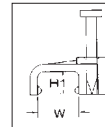
## Nylon Cable ID Ties and Tabs

- Nylon cable tie ID marker
- Order in multiples of 10



| Part No. | Size                  | 10     | 100    |
|----------|-----------------------|--------|--------|
| 135175   | 2.0"L x 0.8"W x .02"T | \$ .12 | \$ .10 |
| 182705   | 1.5"L x 0.75"W        | .07    | .05    |

## Nail-In Cable Clips



- Material: Impact resistant PE
- With nails inserted

For telephone cords; white Order in multiples of 100

| Part No. | Cross Ref. No. | W" x H" x H1"   | 100    | 1000   |
|----------|----------------|-----------------|--------|--------|
| 190828   | NF1.2          | .24 x .21 x .15 | \$ .02 | \$ .01 |
| 190836   | NF1.6          | .31 x .31 x .20 | .02    | .01    |

For general round cables; gray Order in multiples of 100

| Part No. | Cross Ref. No. | W" x H" x H1"   | 100    | 1000   |
|----------|----------------|-----------------|--------|--------|
| 190861   | NCO.35N        | .14 x .23 x .15 | \$ .02 | \$ .01 |
| 190887   | NC1N           | .24 x .35 x .26 | .02    | .01    |
| 190895   | NC2N           | .31 x .45 x .34 | .02    | .01    |
| 190908   | NC3N           | .39 x .53 x .41 | .02    | .01    |

## Nylon Cable Ties

### Standard

- Cable ties made from UL approved Nylon 66
- Temperature range: -40°C to +85°C
- Color: clear (except P/N 182677: white)
- Flammability rating: UL 94V-2

\*Web Code: QAV

| Part No. | Tensile Strength | Size (L" x W") | 100    | 1000   |
|----------|------------------|----------------|--------|--------|
| 70561    | 18 lbs.          | 3.1 x 0.10     | \$ .04 | \$ .03 |
| 126544   | 18 lbs.          | 4.0 x 0.10     | .03    | .02    |
| 182677   | 18 lbs.          | 4.75 x 0.13    | .04    | .03    |
| 182651   | 18 lbs.          | 5.5 x 0.13     | .11    | .10    |
| 139150   | 18 lbs.          | 8.0 x 0.10     | .04    | .03    |
| 182669   | 18 lbs.          | 8.0 x 0.13     | .04    | .03    |
| 182685   | 18 lbs.          | 8.0 x 0.18     | .04    | .03    |
| 70907    | 40 lbs.          | 5.8 x 0.10     | .08    | .07    |
| 190756   | 40 lbs.          | 10.0 x 0.14    | .09    | .07    |
| 190772   | 40 lbs.          | 11.0 x 0.19    | .09    | .07    |
| 190764   | 40 lbs.          | 13.0 x 0.14    | .10    | .08    |

### Weather Resistant

- Contains Carbonate A for greater resistance to ultraviolet rays in outdoor use

104142  
UV Resistant

| Part No. | Tensile Strength | Size (L" x W") | 100    | 1000   |
|----------|------------------|----------------|--------|--------|
| 139125   | 18 lbs.          | 3.0 x 0.90     | \$ .03 | \$ .01 |
| 104142   | 18 lbs.          | 4.0 x 0.10     | .05    | .03    |
| 104134   | 40 lbs.          | 5.8 x 0.10     | .08    | .05    |
| 190782   | 40 lbs.          | 8.0 x 0.13     | .11    | .08    |
| 190800   | 40 lbs.          | 10.0 x 0.14    | .18    | .13    |
| 190802   | 40 lbs.          | 13.0 x 0.14    | .19    | .17    |

### Cable Tie Assortments

- Tensile strength: 18-50 lbs.
- 145701: 1000 pcs. (4"L); 10 colors
- 150412: 850 pcs. total 500 pcs. (4"L); 300 pcs. (8"L); 50 pcs. (11"L), 5 colors



| Part No. | Wt. (lbs.) | 1      | 10     | 25     |
|----------|------------|--------|--------|--------|
| 145701   | 0.7        | \$9.95 | \$8.95 | \$7.95 |
| 150412   | 1.7        | 17.95  | 16.95  | 15.95  |

## Cable Tie Tool

- 2.5 - 5mm width (of cable)
- Tension adjustable
- Spring return action • Metal



| Part No. | Product No. | 1       | 5       | 10      |
|----------|-------------|---------|---------|---------|
| 182298   | 0302TG-7    | \$19.95 | \$17.95 | \$15.95 |

\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above



Order by Phone 24/7 at 1-800-831-4242 or Online at [www.Jameco.com](http://www.Jameco.com)



# Cable Accessories, Braided Sleeves & Heat Shrink Tubing

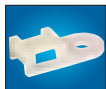
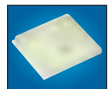
| 3 LEVELS OF SAVINGS |              |                 |
|---------------------|--------------|-----------------|
| NAME BRANDS         | HOUSE BRANDS | FACTORY OVERRUN |

## Cable Tie Mounts & Cable Clamps

- Tie mount and screw tab cable clamps
- Material: UL approved nylon 66, 94V-2



\*Web Code: FBE



| Part No. | Cross Ref. No. | Description  | * Order in multiples of 10 | 1        | 10     | 100    | 1000 |
|----------|----------------|--|----------------------------|----------|--------|--------|------|
| 182942   | 0505HC-101S    | 4-way cable tie mount, self-adhesive, .75"D                          |                            | * \$1.10 | \$0.09 | \$0.08 |      |
| 171214   | HC-100         | 4-way cable tie mount, self-adhesive, use w/ 0.1"W max., 0.5" square |                            | * .16    | .14    | .13    |      |
| 71408    | HC-101         | 4-way cable tie mount, self-adhesive, use w/ 0.1"W max., 0.9" square |                            | * .19    | .17    | .15    |      |
| 71395    | HC-102         | 4-way cable tie mount, self-adhesive, use w/ 0.2"W max., 1.1" square |                            | * .25    | .23    | .19    |      |
| 71386    | HC-103         | 4-way cable tie mount, self-adhesive, use w/ 0.4"W max., 1.1" square |                            | * .37    | .33    | .29    | .27  |
| 70595    | HC-0           | 4-way cable tie, screw type, use w/ 0.2"W max., 0.8"L x 0.4"W        |                            | * .19    | .17    | .15    |      |
| 182301   | 0510HC-2       | Cable tie mount, 1/4" screw hole, 0.5"D                              |                            | * .17    | .15    | .14    |      |
| 173761   | HC-1           | Cable tie, saddle type, 0.6"L x 0.4"W                                |                            | * .10    | .09    | .08    |      |
| 182318   | 0519ATC-17     | 2-way adjustable tie mount, #6 flat head screw, 0.7"D                |                            | * .29    | .27    | .25    |      |
| 182376   | 0519ATC-22     | 2-way adjustable tie mount, #6 flat head screw, 0.9"D                |                            | * .21    | .19    | .15    |      |
| 182334   | 0520FC-1       | Cable tie mount, self-adhesive, 0.1"D                                |                            | * .19    | .17    | .14    |      |
| 173729   | UC0.5          | Cable clamp for 3/16" cable  |                            | * .08    | .06    | .04    |      |
| 173737   | UC1            | Cable clamp for 1/4" cable   |                            | * .11    | .10    | .09    |      |
| 71062    | MCV-100R       | Cable ID tie (4"L x 0.1"W) with tab (.98"W x .31"H)                  |                            | * .29    | .27    | .23    |      |

## FLEXO® Braided Sleeve

- Color: black
- Length: 25 feet
- Cut and abrasion resistant
- Maintains properties across wide temperature range
- UV resistant

### Flexo® Clean-Cut Braided

- Dense braid structure provides fuller coverage
- Fray resistant when cut w/ scissors

| Part No. | Mfr. Part No. | Min/Max Flex (in.) | Inside Dia. (in.) | Outside Dia. (in.) | 1       | 5       |
|----------|---------------|--------------------|-------------------|--------------------|---------|---------|
| 162157   | CCP0.25BK25   | 5/32 - 7/16        | 0.250             | 0.440              | \$15.95 | \$14.49 |
| 162165   | CCP0.50BK25   | 1/4 - 3/4          | 0.500             | 0.750              | 17.95   | 15.95   |

### Flexo® Pet Braided

- Braided from 10 mil polyethylene terephthalate monofilament yarns
- UL recognized component
- Conforms to FMVSS 302
- High tensile strength

| Part No. | Mfr. Part No. | Min/Max Flex (in.) | Inside Dia. (in.) | Outside Dia. (in.) | 1      | 5      |
|----------|---------------|--------------------|-------------------|--------------------|--------|--------|
| 693679   | PTNO.25BK25   | 1/8 - 7/16         | 0.250             | 0.440              | \$7.95 | \$6.95 |
| 693687   | PTNO.38BK25   | 3/16 - 5/8         | 0.375             | 0.425              | 11.95  | 10.95  |
| 695383   | PTNO.50BK25   | 1/4 - 3/4          | 0.500             | 0.550              | 11.95  | 10.75  |

## Low Profile Conduit

No more tripping or running over cables and cords. This low profile conduit hides cables/cords and provides cable management at the same time.

Simply install on any wall or floor with its double-sided tape.

- 5 feet long



| Part No. | Description         | 1       | 5       |
|----------|---------------------|---------|---------|
| 2112479  | Low profile conduit | \$19.95 | \$17.95 |

## Round-Type Strain Relief Bushings

- UL approved nylon 66, 94V-2
- Used extensively for protecting cords and to prolong cord life
- Order in multiples of 10

| Part No. | Cable Type     | Length (in.) | 10     | 100    | 1000   |
|----------|----------------|--------------|--------|--------|--------|
| 182351   | SVI/SVT        | .43          | \$0.08 | \$0.07 | \$0.05 |
| 182369   | SJ/SJT; 16 AWG | .58          | .12    | .10    | .08    |

| Part No. | Description  | 1       | 10      |
|----------|--------------|---------|---------|
| 73471    | Bushing tool | \$34.95 | \$29.95 |

Blue Part No. = Limited Quantity Available

## Heat Shrink Tubing Kits

A selection of heat shrinkable flexible polyolefin tubing that offers an outstanding balance of electrical, physical and chemical properties for a wide variety of industrial and military applications. Rated for 275°F (135°C).

| 2095971 |        | 2095963 |        | 285481 |        | 2095947 |        | 645976 |        |
|---------|--------|---------|--------|--------|--------|---------|--------|--------|--------|
| Size    | Pieces | Size    | Pieces | Size   | Pieces | Size    | Pieces | Size   | Pieces |
| 1/8"    | 12     | 1/16"   | 56     | 3/16"  | 30     | 1/16"   | 56     | 3/32"  | 35     |
| 1/4"    | 10     | 3/32"   | 35     | 1/4"   | 28     | 3/32"   | 35     | 1/8"   | 28     |
| 3/8"    | 6      | 1/8"    | 28     | 3/8"   | 20     | 1/8"    | 28     | 3/16"  | 21     |
| 1/2"    | 4      | 3/16"   | 18     | 1/2"   | 14     | 3/16"   | 18     | 1/4"   | 21     |
| 3/4"    | 3      | 1/4"    | 9      | 3/4"   | 6      | 1/4"    | 9      | 3/8"   | 14     |
| 1"      | 2      | 3/8"    | 8      | 1"     | 4      | 3/8"    | 8      | 1/2"   | 14     |

| Part No. | Mfr.     | Description                             | Pieces | Length | 1       | 5       |
|----------|----------|---|--------|--------|---------|---------|
| 2095971  | ValuePro | Black, dual wall, moisture resistant    | 37     | 4      | \$24.95 | \$22.49 |
| 2095963  | ValuePro | Black                                   | 154    | 4      | 19.95   | 17.95   |
| 285481   | 3M       | Black                                   | 102    | 6      | 65.95   | 58.95   |
| 2095947  | ValuePro | Black/red/white/yellow/blue/green/clear | 154    | 4      | 19.95   | 17.95   |
| 645976   | 3M       | Black/red/white/yellow/blue/green/clear | 133    | 6      | 65.95   | 58.95   |

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 197.

## Polyolefin Heat Shrink Tubing

### FIT221/FIT221B Series

Insulation from environment and resistance from water fungus and UV light. Use for insulation and repair, wire and cable harnessing/bundling, cable and connector protection, and wire and tubing splicing and connecting.

- Operating temp: -55°C to 135°C
- Shrinkage ratio: 2:1 @ 121°C
- Dielectric strength: 500V/mil (197kV/cm)
- Volume resistivity: 10<sup>14</sup>Ω-cm

### Clear (4-foot pieces)

| Part No. | Mfr. Part No. | Before/After ID (in.) | 1     | 10    | 100   |
|----------|---------------|-----------------------|-------|-------|-------|
| 419119   | FIT221-3/64   | .046/.023             | \$.85 | \$.79 | \$.65 |
| 419135   | FIT221-1/16   | .063/.031             | .95   | .85   | .75   |
| 419178   | FIT221-1/8    | .125/.062             | 1.19  | 1.05  | .95   |
| 419215   | FIT221-1/4    | .250/.125             | 2.25  | 1.95  | 1.75  |
| 419231   | FIT221-3/8    | .375/.187             | 1.79  | 1.59  | 1.39  |
| 419274   | FIT221-3/4    | .750/.375             | 2.69  | 2.49  | —     |
| 2113682  | TT-100        | 1.00/.500             | 3.95  | 3.69  | —     |

### Black (4-foot pieces)

|        |              |           |       |       |       |
|--------|--------------|-----------|-------|-------|-------|
| 419101 | FIT221B-3/64 | .046/.023 | \$.89 | \$.79 | \$.69 |
| 419127 | FIT221B-1/16 | .063/.031 | .99   | .89   | .79   |
| 419143 | FIT221B-3/32 | .093/.046 | .99   | .89   | .79   |
| 419160 | FIT221B-1/8  | .125/.062 | .99   | .89   | .79   |
| 419186 | FIT221B-3/16 | .187/.093 | 1.25  | 1.09  | .99   |
| 419207 | FIT221B-1/4  | .250/.125 | 1.85  | 1.69  | 1.49  |
| 419223 | FIT221B-3/8  | .375/.187 | 1.95  | 1.75  | 1.59  |
| 419240 | FIT221B-1/2  | .500/.250 | 1.95  | 1.75  | 1.59  |

### Black (6-inch pieces)

| Part No. | Mfr. Part No. | Before/After ID (in.) | Bags of | 1       | 5       |
|----------|---------------|-----------------------|---------|---------|---------|
| 419400   | FIT221B-1/16  | .063/.031             | 36      | \$14.75 | \$13.29 |
| 419549   | FIT221B-3/4   | .750/.375             | 12      | 14.75   | 13.29   |

## Heat Shrink Tubing

- 2:1 uniform shrink ratio
- Shrink temp.: 90°C
- Color: black

### Polyolefin Tubing

- Only sold in 10' & 100' lengths

| Part No. | Dia. Before (mm) | Length (ft.) | 1      | 10     |
|----------|------------------|--------------|--------|--------|
| 644834   | 0.12" (3)        | 10           | \$1.95 | \$1.75 |
| 644851   | 0.12" (3)        | 100          | 12.65  | 11.49  |
| 644869   | 0.16" (4)        | 10           | 2.15   | 1.95   |
| 644877   | 0.16" (4)        | 100          | 19.95  | 17.95  |
| 644906   | 0.20" (5)        | 10           | 2.45   | 2.19   |
| 644914   | 0.20" (5)        | 100          | 21.45  | 19.29  |
| 644931   | 0.24" (6)        | 10           | 2.55   | 2.29   |
| 644949   | 0.24" (6)        | 100          | 21.75  | 19.59  |
| 644957   | 0.31" (8)        | 10           | 2.95   | 2.65   |
| 644965   | 0.31" (8)        | 100          | 31.95  | 28.75  |
| 644973   | 0.43" (11)       | 10           | 3.95   | 3.55   |
| 644981   | 0.43" (11)       | 100          | 35.95  | 32.35  |
| 644990   | 0.59" (15)       | 10           | 4.95   | 4.45   |

### Polyolefin Flexible Tubing

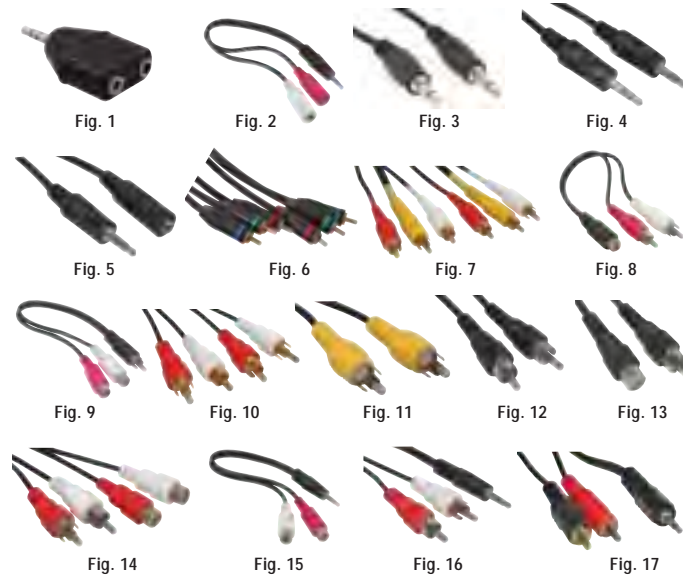
- Dielectric strength: 1300V
- Temp. range: -45°C to +125°C
- Flame retardant
- Precut 39" length (1 meter)

| Part No. | Dia. Before (mm) | 1     | 10    | 100   |
|----------|------------------|-------|-------|-------|
| 71327    | .059" (1.5)      | \$.55 | \$.49 | \$.45 |
| 71871    | .079" (2.0)      | .55   | .49   | .45   |
| 71280    | .098" (2.5)      | .95   | .85   | .75   |
| 72063    | .197" (5.0)      | .85   | .75   | .69   |

JAMECO ValuePro

## Audio/Video Cables and Adapters

★ Web Code: JAU



### Video/Audio Patch Cables

| Part No. | *Mfr. | Fig. | Description                               | 1      | 10     | 25     |
|----------|-------|------|---|--------|--------|--------|
| 2081211  | MST   | 6    | 4' RCA component video (3) M to (3) M     | \$8.95 | \$7.95 | \$6.95 |
| 2081852  | JVP   | 6    | 6' RCA component video (3) M to (3) M     | 6.95   | 6.25   | 5.49   |
| 228216   | JVP   | 7    | 3' stereo video patch cable, gold plated  | 1.55   | 1.39   | 1.25   |
| 228582   | JVP   | 7    | 50' stereo video patch cable, gold plated | 12.95  | 11.75  | 10.49  |

### RCA Cables

★ Web Code: QAP

| Part No. | *Mfr. | Fig. | Description                                      | 1      | 10     | 100    |
|----------|-------|------|--|--------|--------|--------|
| 228371   | JVP   | 8    | 6' RCA (2) M plugs to RCA F jack                 | \$1.35 | \$1.19 | \$1.09 |
| 228355   | JVP   | 9    | 6' RCA M plug to RCA (2) F jacks                 | 1.95   | 1.75   | 1.59   |
| 228443   | JVP   | 10   | 3' RCA stereo (2) M to (2) M plugs, gold plated  | 1.75   | 1.59   | 1.39   |
| 183312   | JVP   | 11   | 4' RCA M to M plug (black)                       | 1.35   | 1.19   | .99    |
| 206974   | JVP   | 11   | 4' RCA M to M plug (yellow)                      | .99    | .89    | .79    |
| 1949470  | +     | 12   | 6' RCA M to M, gold plated                       | .95    | .85    | .75    |
| 106375   | JVP   | 12   | 6' RCA M to M plug                               | 1.75   | 1.59   | 1.25   |
| 2082417  | JVP   | 11   | 6' RCA M to M plug (yellow)                      | 1.75   | 1.59   | 1.25   |
| 228419   | JVP   | 13   | 6' RCA mono M plug to F jack                     | 1.95   | 1.75   | 1.49   |
| 228486   | JVP   | 14   | 6' RCA stereo (2) M plugs to (2) F jacks         | 1.25   | 1.09   | .99    |
| 228451   | JVP   | 10   | 6' RCA stereo (2) M to (2) M plugs, gold plated  | 1.95   | 1.75   | 1.49   |
| 1810152  | +     | 7    | 6' RCA (3) M to (3) M plugs, nickel plated       | 2.25   | 1.95   | 1.75   |
| 29349    | JVP   | 11   | 10' RCA mono M to M plug (yellow)                | 2.25   | 1.95   | 1.75   |
| 228460   | JVP   | 10   | 12' RCA stereo (2) M to (2) M plugs, gold plated | 2.69   | 2.45   | 2.19   |
| 225980   | JVP   | 7    | 12' RCA (3) M to (3) M plugs, gold plated        | 3.95   | 3.55   | 3.19   |
| 225998   | JVP   | 7    | 20' RCA (3) M to (3) M plugs, gold plated        | 6.95   | 6.25   | 4.95   |
| 228435   | JVP   | 12   | 25' RCA mono M to M plug, nickel plated          | 2.25   | 1.95   | 1.79   |
| 228478   | JVP   | 10   | 25' RCA stereo (2) M to (2) M plugs, gold plated | 2.95   | 2.65   | 2.39   |

Interconnects

### 3.5mm Audio Splitter and Extension/Patch Cables

| Part No. | *Mfr. | Fig. | Description                                   | 1      | 10     | 100    |
|----------|-------|------|---|--------|--------|--------|
| 2099649  | JVP   | 1    | 1.8' 3.5mm mono F (2) to M stereo plug        | \$1.95 | \$1.75 | \$1.49 |
| 228398   | JVP   | 2    | 6' 3.5mm stereo Y-cable F jacks (2) to M plug | 2.35   | 2.09   | 1.89   |
| 1944855  | +     | 3    | 3' 4' 3.5mm mono M to M plug (black)          | 1.25   | 1.09   | .99    |
| 228494   | JVP   | 4    | 6' 3.5mm stereo M to M plug (black)           | 1.45   | 1.29   | 1.15   |
| 228515   | JVP   | 5    | 6' 3.5mm stereo M plug to F jack (black)      | 2.35   | 2.09   | 1.89   |
| 228507   | JVP   | 4    | 12' 3.5mm stereo M to M plug (black)          | 1.95   | 1.75   | 1.59   |
| 228523   | JVP   | 5    | 12' 3.5mm stereo M plug to F jack (black)     | 2.49   | 2.25   | 1.95   |
| 2077538  | +     | 5    | 20' 3.5mm stereo M plug to F jack (black)     | 2.75   | 2.49   | 2.25   |

JAMECO ValuePro

## Component Video and Audio Cable

- Low-loss 75Ω oxygen-free copper center conductors and foam dielectric provide maximum signal transfer bandwidth for improved picture quality and performance
- Corrosion resistant, precise 24k gold-plated connectors ensure long lasting quality
- Fully molded color coded connectors attached to an ultra-flexible PVC jacket provide excellent strain relief, easy installation, and identification
- 100%, 0.012mm aluminum-polyester foil shielding and spiral-wound copper-braid shielding provides clear, noise-free, vivid picture quality



| Part No. | Description                                   | 1       | 10      | 25     |
|----------|---|---------|---------|--------|
| 229403   | 6' component video RGB and stereo audio cable | \$11.95 | \$10.95 | \$9.95 |

JAMECO ValuePro

## S-VHS Cables and Adapters

★ Web Code: TBL

Low-loss fully shielded Super-VHS cables, 4-contact mini DIN plus S-VHS cable and dual-RCA plug stereo cables.

- Fully-molded color coded gold RCA connectors
- Flexible black PVC jacket
- Applications: home theaters, DSS receivers, Super-VHS VCRs, camcorders & DVD players

JAMECO EXCLUSIVE



| Part No. | Description                                       | 1      | 10     | 100    |
|----------|---|--------|--------|--------|
| 683075   | S-video male plug to RCA video female jack (blue) | \$1.75 | \$1.49 | \$1.25 |
| 229391   | S-video male plug to RCA video female jack        | 1.75   | 1.49   | 1.25   |
| 228591   | 6' S-VHS video cable, gold plated                 | 2.15   | 1.95   | 1.79   |
| 228611   | 25' S-VHS video cable, gold plated                | 3.95   | 3.55   | 3.19   |

### Audio/Video BNC to RCA Cables & Adapter

Fully molded nickel connectors. Used for displays that require a single BNC connection from a PAL/NTSC video source.



★ Web Code: AVC

| Part No. | Description  | 1      | 10     | 25     |
|----------|--|--------|--------|--------|
| 1945057  | 3' BNC to BNC video cable w/ BNC to RCA male adapter | \$3.95 | \$3.49 | \$2.95 |
| 683059   | 6' BNC to RCA cable (RG-59)                          | 3.95   | 3.49   | 2.95   |

### RGB Video Cables

- 75Ω coaxial cable
- Pin 1 red, pin 2 green, pin 3 blue, pin 14 white/black vertical, pin 13 gray horizontal
- 5 BNCs to HDDB15-pin male
- Color: black



| Part No. | Description | 1       | 5       | 25      |
|----------|-------------|---------|---------|---------|
| 73648    | 6' cable    | \$14.95 | \$13.49 | \$11.95 |
| 118068   | 10' cable   | 7.95    | 6.95    | 6.49    |

JAMECO ValuePro

### DVI Cables

Digital Video Interface (DVI) provides a high-speed digital connection for visual data types that are display technology independent. The DVI specifications meet the needs of all segments of the PC industry and will enable these different segments to unite around one monitor interface standard.

★ Web Code: EEM



| Part No. | Description          | 1      | 10     | 25     |
|----------|----------------------|--------|--------|--------|
| 320346   | Single link 2 meters | \$3.95 | \$3.49 | \$3.15 |
| 1944265  | Dual link 3 meters   | 13.95  | 12.49  | 11.25  |

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\* JVP = Jameco ValuePro | MST = Monster | + Manufacturer Varies

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# HDMI Cables, Adapters, Audio Plugs & Jacks

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JAMECO ValuePro

## HDMI Cables & Adapters

\*Web Code: DEM

High Definition Multimedia Interface (HDMI) is the industry supported, uncompressed, all digital audio/video interface. HDMI provides an interface between any audio/video source, such as set-top box, DVD players, A/V receivers, audio/video monitors, DTV, HDTV, and plasma monitor.



| Part No. | Product No.   | Description                         | 1       | 5      | 25     |
|----------|---------------|-------------------------------------|---------|--------|--------|
| 1944142  | 10HM-01128-01 | Male to male, 1 meter               | \$10.95 | \$9.95 | \$8.95 |
| 1944151  | 10HM-01128-02 | Male to male, 2 meters              | 12.95   | 11.49  | 9.95   |
| 1944169  | 10HM-01128-05 | Male to male, 5 meters              | 17.95   | 15.95  | 14.49  |
| 2115611  | AV22400B-12   | HDMI M to DVI M 12 feet             | 14.95   | 13.49  | 11.95  |
| 1944177  | 10HM-15128-01 | Male to DVI-D single link, 1 meter  | 9.95    | 8.95   | 7.95   |
| 1944185  | 10HM-15128-02 | Male to DVI-D single link, 2 meters | 11.95   | 10.95  | 9.95   |
| 1944193  | 10HM-15128-05 | Male to DVI-D single link, 5 meters | 16.95   | 15.25  | 13.75  |
| 1944206  | 30HM-15228-M0 | HDMI M to DVI F video adapter       | 8.95    | 7.95   | 6.95   |
| 1944214  | 30HM-15328-M0 | HDMI F to DVI M video adapter       | 8.95    | 7.95   | 6.95   |
| 1944222  | 30HM-01100    | M to M HDMI gender changer          | 7.49    | 6.95   | 6.49   |
| 1944231  | 30HM-01200    | F to M HDMI gender changer          | 7.49    | 6.95   | 6.49   |
| 1944249  | 30HM-01400    | F to F HDMI gender changer/coupler  | 7.95    | 7.25   | 6.49   |

## Stereo, Phone, Audio Plugs & Jacks

\*Web Code: AJS

| Part No. | Manufacturer | Product No.     | Fig. | Description  | Dimensions (mm)        | 1      | 10     | 100    |
|----------|--------------|-----------------|------|--|------------------------|--------|--------|--------|
| 297297   | Switchcraft  | 850X            | 1    | 2.5mm mono phone, audio plug, black plastic          | 25.8L x 6.35 Dia.      | \$3.49 | \$3.15 | \$2.79 |
| 281869   | Switchcraft  | 750             | 2    | 3.5mm mono audio plug, plastic                       | 41.5L x 5.7 ID         | 2.95   | 2.65   | 2.39   |
| 297060   | Switchcraft  | 170             | 3    | 1/4" commercial phone plug, metal                    | 69.7L x 17.46 Dia.     | 5.95   | 5.49   | 4.95   |
| 281754   | Switchcraft  | 250             | 4    | 1/4" mono phone audio plug, plastic                  | 73.7L x 7.6 ID         | 3.45   | 3.09   | 2.79   |
| 281762   | Switchcraft  | 267             | 5    | 1/4" commercial phone plug, black plastic            | 73.7L x 7.6 ID         | 4.95   | 4.49   | 3.95   |
| 281789   | Switchcraft  | 297             | 6    | 1/4" stereo phone audio plug, metal                  | 73.7L x 7.6 ID         | 4.95   | 4.49   | 3.95   |
| 297123   | Switchcraft  | 236             | 7    | 1/4" stereo phone audio plug, rt. angle, cable mnt.  | 46.4 x 15.9 ID         | 6.95   | 6.25   | 5.65   |
| 281771   | Switchcraft  | 280             | 8    | 1/4" mono phone audio plug, metal                    | 73.7L x 7.6 ID         | 3.85   | 3.49   | 3.15   |
| 229876   | ValuePro     | JR0101BLK       | 9    | RCA plug, metal (black stripes)                      | 61.7L x 7.0 ID         | 1.95   | 1.75   | 1.49   |
| 229868   | ValuePro     | JR0101R         | 9    | RCA plug, metal (red stripes)                        | 61.7L x 7.0 ID         | 2.25   | 1.95   | 1.75   |
| 230287   | ValuePro     | JR0101Y         | 10   | RCA plug, yellow housing, gold plated                | 61.7L x 7.0 ID         | 1.49   | 1.25   | 1.09   |
| 229921   | ValuePro     | JR1625BLK       | 11   | RCA plug, plastic, black (5 pk)                      | 51.5L x 5.0 ID         | 1.45   | 1.29   | 1.15   |
| 229930   | ValuePro     | JR1625R         | 12   | RCA plug, plastic, red (5 pk)                        | 51.5L x 5.0 ID         | 1.45   | 1.29   | 1.15   |
| 281800   | Switchcraft  | 3502            | 13   | RCA phone plug, metal                                | 33.8L x 5.0 ID         | 1.95   | 1.75   | 1.59   |
| 281818   | Switchcraft  | 3502A           | 14   | RCA phono audio plug, nickel                         | 42.4 x 7.3 ID          | 2.25   | 1.95   | 1.75   |
| 281834   | Switchcraft  | 41              | 15   | 3.5mm audio jack                                     | 7.8L x 5.9 Dia.        | 1.85   | 1.69   | 1.49   |
| 2114562  | Adam Tech    | ASJ-40-4A       | 16   | 3.5mm stereo jack, PCB mount, open                   | 9.0H x 11.6W x 37.0L   | 1.15   | 1.05   | .95    |
| 2114571  | Adam Tech    | ASJ-41-5        | 17   | 3.5mm stereo jack, PCB mount, closed                 | 38.5H x 12.6L          | 1.59   | 1.45   | 1.35   |
| 568392   | Switchcraft  | 35R4PC4BH3      | 18   | 3.5mm stereo jack, rt. angle horz., threaded         | 6.0H x 11.0W x 8.0L    | 1.49   | 1.35   | 1.19   |
| 1766180  | Switchcraft  | 35R4PC4BHN2     | 18   | 3.5mm stereo jack, rt. angle horz., non-threaded     | 5.0H x 12.0W x 15.0L   | 1.69   | 1.49   | 1.35   |
| 2081334  | Shogyo       | 354-3PY         | 18   | 3.5mm mono jack, rt. angle horz., non-threaded       | 6.1H x 11.9W x 12.0L   | 1.09   | .89    | .69    |
| 2100291  | Shogyo       | 354-PY (CT)     | 19   | 3.5mm mono jack, rt. angle horz., threaded           | 6.45H x 11.7W x 14.3L  | 1.19   | .99    | .79    |
| 2081772  | Kycon        | ST3120-3-WHT    | 20   | 3.5mm stereo jack, rt. angle horz., non-threaded     | 10.45H x 12.0W x 6.8L  | .49    | .45    | .39    |
| 1766198  | Switchcraft  | 35R4PC4BV4      | 21   | 3.5mm stereo jack, rt. angle ver., threaded          | 12.3H x 8.1W x 14.0L   | 1.75   | 1.59   | 1.45   |
| 2095373  | Various      | HTJ-035-22D     | 22   | 3.5mm mono jack, rt. angle horz., non-threaded, blk. | 10.45H x 10.0W x 14.0L | .99    | .89    | .79    |
| 2095437  | ValuePro     | J355W           | 23   | 3.5mm mono audio jack                                | 10.1H x 8.4W x 17.6L   | 1.19   | .99    | .79    |
| 2081238  | Shogyo       | SCJ330          | 23   | 3.5mm mono audio jack                                | 10.6H x 9.0W x 21.7L   | 1.95   | 1.75   | 1.49   |
| 281738   | Switchcraft  | 11              | 24   | 1/4" mono phone audio jack                           | 12.8L x 9.1 Dia.       | 1.85   | 1.69   | 1.49   |
| 296892   | Switchcraft  | 12A             | 25   | 1/4" mono phone audio jack, metal                    | 31.7L x 9.4 Dia.       | 1.79   | 1.59   | 1.45   |
| 296905   | Switchcraft  | 13B             | 25   | 1/4" mono phone audio jack, metal                    | 30.6L x 9.4 Dia.       | 2.95   | 2.79   | 2.65   |
| 281746   | Switchcraft  | 12B             | 25   | 1/4" stereo phone audio jack                         | 14.7L x 9.1 Dia.       | 1.95   | 1.79   | 1.59   |
| 2120209  | ValuePro     | STJ-.25         | 26   | 1/4" stereo phone audio jack, shielded, threaded     | 20.8L x 16.7W x 16.5H  | 1.69   | 1.49   | 1.35   |
| 1581564  | Keystone     | 901             | 27   | RCA jack, PCB mount, right angle, black              | 11.8H x 10.6W x 6.8L   | .49    | .45    | .39    |
| 220581   | ValuePro     | KY-006-1(W)     | 27   | RCA jack, PCB mount, white                           | 11.2H x 14.2W x 12.2L  | .65    | .59    | .55    |
| 220556   | ValuePro     | KY-006-1(R)     | 27   | RCA jack, PCB mount, red                             | 11.2H x 14.2W x 12.2L  | .65    | .59    | .55    |
| 220572   | ValuePro     | KY-006-1(B)     | 27   | RCA jack, PCB mount, black                           | 11.2H x 14.2W x 12.2L  | .39    | .35    | .25    |
| 220564   | ValuePro     | KY-006-1(Y)     | 27   | RCA jack, PCB mount, yellow                          | 11.2H x 14.2W x 12.2L  | .39    | .35    | .29    |
| 2076359  | Various      | AJ842G3         | 28   | RCA jack, PCB mount, rt. angle, red/white/yellow (3) | 40.6H x 22.9W x 21.6L  | .59    | .55    | .49    |
| 2076332  | Various      | SCJ-0358-YLW    | 29   | RCA jack, PCB mount, yellow                          | 9.9H x 19.1W x 13.0L   | .45    | .35    | .25    |
| 169502   | Various      | SCJ-0358-BLK-R  | 29   | RCA jack, PCB mount, black                           | 10.2H x 21.6W x 12.7L  | .55    | .49    | .45    |
| 319249   | Velleman     | CA066           | 30   | RCA jack, 2 pair stereo, panel mount, red/white      | 73.7H x 12.2W x 24.9L  | .95    | .85    | .75    |
| 159485   | Various      | CS7021-DN-BLK-R | 31   | RCA jack, panel mount, black                         | 21.3W x 9.7H           | .95    | .85    | .75    |
| 172340   | Various      | CS7021-DN-RD-R  | 31   | RCA jack, panel mount, red                           | 21.3W x 9.7H           | .85    | .75    | .69    |

† Closed circuit



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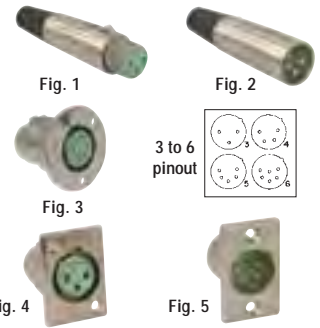
RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 197.



## Microphone (XLR) Connectors

| Part No. | Manufacturer | Product No. | Fig. | Description                      | Dimensions (mm)       | 1      | 10     | 25     |
|----------|--------------|-------------|------|----------------------------------|-----------------------|--------|--------|--------|
| 277026   | Switchcraft  | A3F         | 1    | 3-pin female, metal              | 82.5 x 5.3 Dia.       | \$5.25 | \$4.75 | \$4.25 |
| 281560   | Switchcraft  | A3M         | 2    | 3-pin male, metal                | 70.3 x 5.3 Dia.       | 4.55   | 3.95   | 3.65   |
| 297422   | Switchcraft  | C3F         | 3    | 3-pin female, metal, panel mount | 36.9 x 36.5 Dia.      | 7.49   | 6.95   | 6.75   |
| 281640   | Switchcraft  | D3F         | 4    | 3-pin female, metal, panel mount | 27.0W x 36.3H x 30.6D | 5.95   | 5.39   | 4.85   |
| 281623   | Switchcraft  | A6F         | 1    | 6-pin female, metal              | 80.2 x 4.6 Dia.       | 16.95  | 14.95  | 13.95  |
| 281711   | Switchcraft  | D6M         | 5    | 6-pin male, metal, panel mount   | 27.0W x 36.3H x 30.6D | 9.95   | 8.95   | 7.95   |
| 319011   | ValuePro     | 250-710     | 2    | 3-pin male, metal                | 70.6L x 7.31D         | 2.95   | 2.65   | 2.39   |
| 319003   | ValuePro     | 250-720     | 1    | 3-pin female, metal              | 81.5L x 7.43D         | 2.25   | 1.95   | 1.75   |
| 319038   | ValuePro     | 250-705     | 4    | 3-pin female, metal, panel mount | 26.2W x 35.5H x 35.9D | 3.45   | 2.95   | 2.65   |

\*Web Code: ABV



## Audio Adapters

| Part No. | Manufacturer | Cross Ref. No. | Description                              | 1      | 10     | 100    |
|----------|--------------|----------------|--|--------|--------|--------|
| 309665   | ValuePro     | 251-175        | 3.5mm stereo F jack to 3.5mm mono M plug | \$ .39 | \$ .35 | \$ .29 |
| 2115637  | Belkin       | F8V211TT       | 3.5mm stereo M 1/4" stereo F jack        | .69    | .59    | .55    |
| 228283   | ValuePro     | 251-120        | RCA F jack to mono 1/4" M plug           | .69    | .59    | .55    |
| 228267   | ValuePro     | 251-116        | RCA F to F jack coupler, gold plated     | .59    | .55    | .49    |
| 2115629  | Belkin       | F8V210TT       | RCA F to F jack coupler, silver plated   | .55    | .49    | .45    |

NEW  
MARKED IN PINK

\*Web Code: KBQ



## AMP CPC Contacts

Type III+ Snap-In Crimp Pins w/ Retention Spring

- Finish:
  - A: 30µ" gold over nickel
  - B: Tin-lead
  - C: 15µ" gold over nickel
- Crimp type except \*P/N 526424 (solder type)
- Contact body - brass or phosphor bronze

| Part No. | Mfr. P/N  | AWG   | Finish | Type   | 1     | 10    |
|----------|-----------|-------|--------|--------|-------|-------|
| 526441   | 1-66361-1 | 18-14 | A      | Pin    | \$.49 | \$.45 |
| 859835   | 66361-3   | 18-14 | C      | Pin    | .55   | .49   |
| 526424   | 66180-1   | 18-16 | A      | Pin*   | .85   | .75   |
| 526432   | 66181-1   | 18-16 | A      | Socket | .95   | .85   |
| 526459   | 66103-3   | 24-20 | C      | Pin    | .49   | .45   |
| 526563   | 1-66103-5 | 24-20 | B      | Pin    | .49   | .45   |
| 526361   | 1-66103-7 | 24-20 | A      | Pin    | .59   | .49   |
| 526379   | 66105-3   | 24-20 | C      | Socket | .69   | .59   |
| 526504   | 1-66105-6 | 24-20 | B      | Socket | .49   | .45   |

\*Blue Part No. = Limited Quantity Available

### Size 20DF Contacts

- Contact body: brass
- Finish: A: 30µ" gold over nickel; B: gold flash over nickel

| Part No. | Mfr. P/N  | AWG   | Finish | Type    | 10    | 100   |
|----------|-----------|-------|--------|---------|-------|-------|
| 223221   | 1-66505-0 | 28-24 | B      | Socket† | \$.19 | \$.15 |
| 223247   | 745253-6  | 26-22 | A      | Socket† | .19   | .15   |
| 223298   | 66504-9   | 24-20 | A      | Socket  | .19   | .15   |
| 223255   | 1-66504-0 | 24-20 | B      | Socket  | .19   | .15   |

† With insulation support

**NEW**

RECEPTACLE, MAL, THERMOPLASTIC, SNAP-IN, FAST ON, TERMINAL, 20DF, 18-14, 18-16, 18-18, 18-20, 18-22, 18-24, 18-26, 18-28, 18-30, 18-32, 18-34, 18-36, 18-38, 18-40, 18-42, 18-44, 18-46, 18-48, 18-50, 18-52, 18-54, 18-56, 18-58, 18-60, 18-62, 18-64, 18-66, 18-68, 18-70, 18-72, 18-74, 18-76, 18-78, 18-80, 18-82, 18-84, 18-86, 18-88, 18-90, 18-92, 18-94, 18-96, 18-98, 18-100

Find Data Sheets Easily on the Product Specification Page. [www.Jameco.com](http://www.Jameco.com)

## AMP CPC Circular Plastic Connectors

Series 1 — Standard density, signal and low-current applications

- Accepts type III+; high-current type II and subminiature coax contacts
- Voltage rating: 600V (UL)

\*Web Code: WBK



### Receptacles

\*Blue Part No. = Limited Quantity Available

| Part No. | Mfr. P/N | Size/Pos | Gender   | 1      | 10     |
|----------|----------|----------|----------|--------|--------|
| 495091   | 206429-1 | 11-4     | Reverse  | \$2.95 | \$2.65 |
| 495218   | 206430-1 | 11-4     | Reverse  | 1.95   | 1.75   |
| 495162   | 206061-1 | 11-4     | Standard | 2.25   | 1.95   |
| 495293   | 211401-1 | 13-7     | Standard | 4.95   | 4.49   |
| 421382   | 206036-1 | 17-16    | Standard | 2.59   | 2.35   |
| 495146   | 206043-1 | 17-14    | Reverse  | 2.59   | 2.29   |

### Plugs

| Part No. | Mfr. P/N | Size/Pos. | Gender   | 1      | 10     |
|----------|----------|-----------|----------|--------|--------|
| 495322   | 206037-1 | 17-16     | Standard | \$3.49 | \$3.15 |
| 495031   | 206044-1 | 17-14     | Reverse  | 2.95   | 2.65   |
| 495103   | 206708-1 | 13-9      | Standard | 2.95   | 2.65   |
| 421374   | 211399-1 | 13-7      | Standard | 2.95   | 2.65   |
| 495082   | 206060-1 | 11-4      | Standard | 2.79   | 2.49   |

## AMP Circular Cable Clamps

Provides strain relief and can be used in all series receptacles and plugs.

- Material: thermoplastic black, UL94V-0 rated (plastic); zinc alloy (metal)



\*Web Code: PCB

| Part No. | Mfr. P/N | Material | Shell Size | Cable O.D. (max.) | 1      | 10     |
|----------|----------|----------|------------|-------------------|--------|--------|
| 494039   | 206062-1 | Plastic  | 11         | .329"             | \$3.75 | \$3.35 |
| 494063   | 206070-1 | Plastic  | 17         | .453"             | 3.75   | 3.35   |
| 494055   | 206966-1 | Plastic  | 13         | .453"             | 3.75   | 3.35   |
| 494101   | 208945-5 | Metal    | 14         | .562"             | 7.95   | 6.95   |
| 494119   | 208945-7 | Metal    | 22         | .750"             | 10.95  | 9.95   |

## AMP Extraction Tool

- Works with general contacts of CPC, multimate and MATE-N-LOCK II contacts

| Part No. | Mfr. Part No. | 1       | 10      |
|----------|---------------|---------|---------|
| 841838   | 305183        | \$17.95 | \$15.95 |

## D-Sub Pin Insertion/Extraction Tools

19094/527582/223335: Plastic body; metal tips

223327: Handle with .050" hex wrench and exchangeable tips

\*Web Code: BCD

| Part No. | Mfr.     | Product No. | 1      | 10     |
|----------|----------|-------------|--------|--------|
| 19094    | ValuePro | 500-200     | \$3.95 | \$3.49 |
| 527582   | AMP      | 91067-1     | 7.49   | 6.75   |
| 223335   | AMP      | 91067-2     | 7.49   | 6.75   |
| 223327   | AMP      | 91285-1     | 19.95  | 17.95  |

## D-Sub Crimping Tool

- Heavy-duty metal tool with cutter and insulated handles
- For computer pins & sockets, D-sub 26-28 AWG wire; butt-insulated connectors, 22-26 AWG wire; telephone spade lugs, 22-26 AWG wire and non-insulated connectors, 20-22 AWG & 14-18 AWG
- Coiled spring return • Size: 7.3"L x 1.5"W

| Part No. | Mfr. Part No. | 1      | 5      | 25     |
|----------|---------------|--------|--------|--------|
| 99443    | HT202A        | \$8.95 | \$7.95 | \$6.95 |

## AMPLIMITE™ .050" Series 2 Type B Header

- Right angle plug
- Housing: PBT black
- Cap shields: zinc, nickel over copper
- Contacts: phosphor bronze, 0.76µm gold in contact area, tin in solder area

| Part No. | Mfr. P/N    | Positions | 1       | 5       |
|----------|-------------|-----------|---------|---------|
| 749417   | 2-5174225-5 | 68        | \$21.95 | \$19.95 |

\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

## D-Subminiature Connectors

**Right Angle PCB Mount**  
Metal .318" Setback – Tin plated short style

★ Web Code: FAN



| Part No. | Manufacturer | Product No.     | Contacts | Gender | 1     | 10    | 100   |
|----------|--------------|-----------------|----------|--------|-------|-------|-------|
| 1952839  | Foxconn      | D-SUB-9M+†      | 9        | M      | \$.55 | \$.45 | \$.35 |
| 104943   | ValuePro     | DB9P318R        | 9        | M      | \$.69 | \$.59 | \$.49 |
| 614441   | AMP          | 747840-4†       | 9        | M      | 1.49  | 1.35  | 1.19  |
| 2076682  | Various      | DB9S318         | 9        | F      | \$.65 | \$.55 | \$.45 |
| 104952   | ValuePro     | DB9S318R        | 9        | F      | \$.75 | \$.65 | \$.55 |
| 614504   | AMP          | 747844-4†       | 9        | F      | 1.95  | 1.75  | 1.49  |
| 614125   | AMP          | 745781-4        | 9        | F      | 1.95  | 1.75  | 1.55  |
| 71124    | ValuePro     | DA15P318†       | 15       | M      | \$.69 | \$.59 | \$.49 |
| 71125    | ValuePro     | DA15P318R†      | 15       | M      | \$.79 | \$.69 | \$.59 |
| 168743   | ValuePro     | HDD15S318*      | 15       | M      | \$.59 | \$.55 | \$.49 |
| 77956    | ValuePro     | DA15S318        | 15       | F      | \$.79 | \$.69 | \$.59 |
| 1952273  | Kycon        | HDDSUB-15S†*    | 15       | F      | \$.49 | \$.45 | \$.39 |
| 71466    | ValuePro     | HDD15S318R*     | 15       | F      | \$.89 | \$.79 | \$.69 |
| 614539   | AMP          | 747845-4†       | 15       | F      | 1.75  | 1.55  | 1.39  |
| 15150    | ValuePro     | DB25P318R       | 25       | M      | \$.75 | \$.65 | \$.55 |
| 614230   | AMP          | 745238-4        | 25       | M      | 3.95  | 3.69  | 3.29  |
| 265439   | Various      | DSUB-25F        | 25       | F      | \$.75 | \$.65 | \$.55 |
| 15182    | ValuePro     | DB25S318R       | 25       | F      | \$.85 | \$.75 | \$.65 |
| 446483   | Cinch        | DBKL-25SAT-E25† | 25       | F      | \$.75 | \$.65 | \$.59 |
| 614547   | AMP          | 747846-3†       | 25       | F      | 1.25  | 1.09  | \$.95 |
| 614141   | AMP          | 745783-4        | 25       | F      | 3.19  | 2.89  | 2.59  |
| 71706    | ValuePro     | DC37P318†       | 37       | M      | 1.15  | \$.95 | \$.89 |
| 78182    | ValuePro     | DC37S318+†      | 37       | F      | 1.19  | 1.05  | \$.95 |

\* High Density † Without female jack screws (P/N 172603, pg 69)

**Metal Solder-Cup**

★ Web Code: EAB



| Part No. | Manufacturer | Product No. | Contacts | Gender | 1     | 10    | 100   |
|----------|--------------|-------------|----------|--------|-------|-------|-------|
| 15748    | ValuePro     | 1001-9P-R   | 9        | M      | \$.55 | \$.45 | \$.35 |
| 222990   | AMP          | 747904-2    | 9        | M      | 2.25  | 1.95  | 1.75  |
| 222957   | AMP          | 747904-4†   | 9        | M      | 2.25  | 1.95  | 1.75  |
| 15771    | ValuePro     | 500-109     | 9        | F      | \$.65 | \$.55 | \$.45 |
| 223052   | AMP          | 747905-2    | 9        | F      | 2.25  | 1.95  | 1.75  |
| 223036   | AMP          | 747905-4†   | 9        | F      | 2.75  | 2.35  | 2.09  |
| 15035    | ValuePro     | 1001-15P-R  | 15       | M      | \$.69 | \$.55 | \$.45 |
| 15078    | ValuePro     | 1002-15P-R* | 15       | M      | \$.95 | \$.75 | \$.59 |
| 223001   | AMP          | 747908-2    | 15       | M      | 2.89  | 2.55  | 2.25  |
| 15052    | ValuePro     | 1001-15S-R  | 15       | F      | \$.75 | \$.59 | \$.49 |
| 164823   | ValuePro     | 1002-15S-R* | 15       | F      | \$.95 | \$.75 | \$.59 |
| 223061   | AMP          | 747909-2    | 15       | F      | 3.95  | 3.59  | 3.29  |
| 15115    | ValuePro     | 1001-25P-R  | 25       | M      | \$.95 | \$.79 | \$.69 |
| 2095091  | Amphenol     | EDD25ST     | 25       | M      | \$.75 | \$.65 | \$.55 |
| 223010   | AMP          | 747912-2    | 25       | M      | 3.25  | 2.95  | 2.65  |
| 222973   | AMP          | 747912-4†   | 25       | M      | 2.95  | 2.69  | 2.29  |
| 458126   | Cinch        | DBH-25P     | 25       | M      | 3.95  | 3.49  | 2.95  |
| 15157    | ValuePro     | 500-125     | 25       | F      | \$.95 | \$.79 | \$.69 |
| 223079   | AMP          | 747913-2    | 25       | F      | 3.75  | 3.15  | 2.65  |
| 223044   | AMP          | 747913-4†   | 25       | F      | 3.95  | 3.49  | 2.95  |
| 203799   | ValuePro     | 1002-26P*   | 26       | M      | \$.85 | \$.69 | \$.55 |
| 203782   | ValuePro     | 1002-26S-R* | 26       | F      | \$.75 | \$.65 | \$.55 |
| 639630   | Amphenol     | EDC37P      | 37       | M      | \$.85 | \$.65 | \$.55 |
| 15473    | ValuePro     | 1002-37P    | 37       | M      | 1.35  | 1.15  | \$.95 |
| 222981   | AMP          | 747916-4†   | 37       | M      | 3.95  | 3.49  | 2.95  |
| 482724   | Amphenol     | EDC37S      | 37       | F      | \$.95 | \$.75 | \$.55 |
| 15500    | ValuePro     | GC028-R     | 37       | F      | 1.25  | 1.09  | \$.95 |
| 223087   | AMP          | 747917-2    | 37       | F      | 5.49  | 4.95  | 3.49  |
| 482732   | Amphenol     | EDD50P      | 50       | M      | \$.75 | \$.65 | \$.55 |
| 15676    | ValuePro     | GC029-R     | 50       | M      | 1.95  | 1.69  | 1.49  |
| 482741   | Amphenol     | EDD50S      | 50       | F      | \$.95 | \$.75 | \$.55 |
| 15691    | ValuePro     | GC030       | 50       | F      | 1.29  | 1.15  | \$.95 |

\* High Density † Zinc plated shell †† With standard mounting hole

**Right Angle PCB Mount**

Metal .590" Set Back – Tin plated long style

★ Web Code: HAN



• Current rating: 1A

| Part No. | Manufacturer | Product No. | Contacts | Gender | 1     | 10    | 100   |
|----------|--------------|-------------|----------|--------|-------|-------|-------|
| 104970   | ValuePro     | DB9P590R    | 9        | M      | \$.95 | \$.85 | \$.75 |
| 104978   | ValuePro     | DB9S590     | 9        | F      | \$.95 | \$.85 | \$.75 |
| 104985   | Astron       | DA15P590†   | 15       | M      | \$.65 | \$.55 | \$.49 |
| 104993   | ValuePro     | DA15S590+†  | 15       | F      | \$.65 | \$.55 | \$.49 |
| 189624   | Various      | DB25P590††  | 25       | M      | \$.75 | \$.65 | \$.59 |
| 105006   | ValuePro     | DB25P590R   | 25       | M      | 1.29  | 1.15  | \$.95 |
| 105013   | ValuePro     | DB25S590+†  | 25       | F      | 1.29  | 1.09  | \$.85 |

† Without female jack screws (P/N 172603, pg 69) †† Without board tabs

**Metal Straight PCB Mount**

★ Web Code: SBK



| Part No. | Manufacturer | Product No. | Contacts | Gender | 1     | 10    | 100   |
|----------|--------------|-------------|----------|--------|-------|-------|-------|
| 111692   | ValuePro     | DB9PPCB     | 9        | M      | \$.55 | \$.45 | \$.35 |
| 15781    | ValuePro     | DB9SPCB     | 9        | F      | \$.59 | \$.49 | \$.39 |
| 176760   | ValuePro     | DA15PPCB    | 15       | M      | \$.65 | \$.55 | \$.45 |
| 2077491  | Various      | DAHD15SPCB* | 15       | F      | \$.55 | \$.45 | \$.39 |
| 176752   | ValuePro     | DA15SPCB    | 15       | F      | \$.65 | \$.55 | \$.45 |
| 15123    | ValuePro     | DB25PPCB    | 25       | M      | \$.75 | \$.65 | \$.55 |
| 15165    | ValuePro     | DB25PCB     | 25       | F      | \$.79 | \$.69 | \$.59 |
| 180013   | ValuePro     | DC37PPCB    | 37       | M      | \$.79 | \$.69 | \$.59 |
| 180021   | ValuePro     | DC37PCB     | 37       | F      | 1.25  | 1.09  | \$.95 |

\* High Density

**Crimp-Type**

★ Web Code: UBR



| Part No. | Manufacturer | Product No. | Contacts | Gender | 1     | 10    | 100   |
|----------|--------------|-------------|----------|--------|-------|-------|-------|
| 73189    | ValuePro     | 500-010+    | 9        | M      | \$.49 | \$.39 | \$.35 |
| 222640   | AMP          | 205204-1    | 9        | M      | 1.15  | \$.95 | \$.85 |
| 73197    | ValuePro     | 500-110     | 9        | F      | \$.55 | \$.45 | \$.35 |
| 222842   | AMP          | 205203-3R   | 9        | F      | \$.85 | \$.75 | \$.65 |
| 222691   | AMP          | 205203-1    | 9        | F      | 1.09  | \$.95 | \$.75 |
| 73200    | ValuePro     | G37-15      | 15       | M      | \$.55 | \$.45 | \$.35 |
| 180882   | ValuePro     | 1006-15P-R* | 15       | M      | \$.85 | \$.75 | \$.65 |
| 222703   | AMP          | 205205-1R   | 15       | M      | \$.79 | \$.69 | \$.65 |
| 222658   | AMP          | 205206-1    | 15       | M      | \$.95 | \$.85 | \$.75 |
| 73219    | ValuePro     | G1G125-R    | 15       | F      | \$.65 | \$.55 | \$.45 |
| 180890   | ValuePro     | 1006-15S*   | 15       | F      | \$.65 | \$.55 | \$.49 |
| 38789    | ValuePro     | 500-027     | 25       | M      | \$.65 | \$.55 | \$.45 |
| 222818   | AMP          | 207464-2R   | 25       | M      | \$.79 | \$.65 | \$.55 |
| 38771    | ValuePro     | 500-127     | 25       | F      | \$.65 | \$.55 | \$.45 |
| 222922   | AMP          | 207463-1R   | 25       | F      | \$.95 | \$.85 | \$.75 |

\* High Density

**IDC Ribbon Cable**

- Contact material: phosphor bronze
- Terminates with standard D-type connectors

★ Web Code: MAP



| Part No. | Manufacturer | Product No. | Shell   | Cont. | Gender | 1      | 10     | 100    |
|----------|--------------|-------------|---------|-------|--------|--------|--------|--------|
| 109226   | ValuePro     | MD9P9P      | Metal   | 9     | M      | \$1.75 | \$1.49 | \$1.25 |
| 12504    | ValuePro     | CDB9P       | Plastic | 9     | M      | 2.25   | 1.95   | 1.75   |
| 109218   | ValuePro     | MD9S9S      | Metal   | 9     | F      | 1.85   | 1.65   | 1.45   |
| 12521    | ValuePro     | CDB9S       | Plastic | 9     | F      | 2.49   | 2.25   | 1.95   |
| 614387   | AMP          | 747318-4††  | Plastic | 9     | F      | 4.49   | 3.95   | 3.49   |
| 1577961  | 3M           | 8309-6000R  | Metal   | 9     | F      | 3.95   | 3.69   | 3.29   |
| 614328   | AMP          | 747303-4R   | Metal   | 9     | F      | 4.95   | 4.49   | 3.95   |
| 117382   | ValuePro     | MDA15P      | Metal   | 15    | M      | 1.75   | 1.49   | 1.29   |
| 12299    | ValuePro     | CDA15P      | Plastic | 15    | M      | 1.49   | 1.25   | 1.09   |

†† With standard mounting holes

Continued on next page

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 197.

## D-Subminiature Connectors (Continued)

### IDC Ribbon Cable (Continued)

| Part No. | Manufacturer | Product No. | Shell   | Cont. | Gender | 1      | 10     | 100    |
|----------|--------------|-------------|---------|-------|--------|--------|--------|--------|
| 116012   | ValuePro     | MDA15S      | Metal   | 15    | F      | \$1.95 | \$1.75 | \$1.49 |
| 12319    | ValuePro     | CDA15S      | Plastic | 15    | F      | 1.49   | 1.25   | 1.09   |
| 115984   | ValuePro     | MDB25P      | Metal   | 25    | M      | 2.39   | 2.09   | 1.79   |
| 614344   | AMP          | 747306-2    | Metal   | 25    | M      | 4.95   | 4.49   | 3.95   |
| 12335    | ValuePro     | CDB25P      | Plastic | 25    | M      | 1.89   | 1.75   | 1.49   |
| 115976   | ValuePro     | MDB25S      | Metal   | 25    | F      | 2.25   | 1.95   | 1.75   |

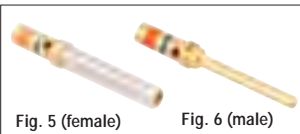
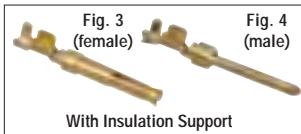
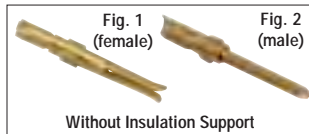
### IDC Ribbon Cable (Continued)

\* Web Code: MAP

| Part No. | Manufacturer | Product No. | Shell   | Cont. | Gender | 1      | 10     | 100    |
|----------|--------------|-------------|---------|-------|--------|--------|--------|--------|
| 12432    | ValuePro     | CDB25S      | Plastic | 25    | F      | \$2.25 | \$1.95 | \$1.75 |
| 115992   | ValuePro     | MDC37P      | Metal   | 37    | M      | 2.95   | 2.65   | 2.35   |
| 614336   | AMP          | 747306-1    | Metal   | 37    | M      | 7.95   | 7.49   | 6.95   |
| 12466    | ValuePro     | CDC37P      | Plastic | 37    | M      | 2.95   | 2.69   | 2.39   |
| 116004   | ValuePro     | MDC37S      | Metal   | 37    | F      | 3.49   | 2.95   | 2.49   |
| 12483    | ValuePro     | CDC37S      | Plastic | 37    | F      | 2.95   | 2.69   | 2.29   |

## D-Sub Solder & Crimp Contacts

\* Web Code: JDC



### Female Solder Contact – Fig. 1

| Part No. | Mfr. | Product No. | AWG | 10    | 100   | 500   |
|----------|------|-------------|-----|-------|-------|-------|
| 223319   | AMP  | 66569-3     | 18  | \$.35 | \$.29 | \$.25 |

### Male Solder Contact – Fig. 2

| Part No. | Mfr. | Product No. | AWG   | 10    | 100   | 500   |
|----------|------|-------------|-------|-------|-------|-------|
| 234982   | AMP  | 66570-3     | 28-24 | \$.29 | \$.25 | \$.19 |

### Female Crimp Contacts – Fig. 3

| Part No. | Mfr.     | Product No. | AWG   | 10    | 100   | 1000  |
|----------|----------|-------------|-------|-------|-------|-------|
| 43369    | ValuePro | 500-155     | 28-24 | \$.12 | \$.09 | \$.08 |
| 185412   | ValuePro | 1006-PS†    | 28-24 | \$.09 | \$.07 | \$.05 |
| 223221   | AMP      | 1-66505-0   | 28-24 | \$.19 | \$.15 | \$.12 |
| 223239   | AMP      | 66683-4     | 28-24 | \$.25 | \$.19 | \$.15 |
| 223247   | AMP      | 745253-6    | 26-22 | \$.19 | \$.15 | \$.12 |
| 860001   | AMP      | 66504-4     | 24-20 | \$.09 | \$.08 | \$.07 |
| 223298   | AMP      | 66504-9     | 24-20 | \$.19 | \$.15 | \$.12 |
| 223255   | AMP      | 1-66504-0   | 24-20 | \$.19 | \$.15 | \$.12 |
| 223271   | AMP      | 5-66504-7   | 24-20 | \$.19 | \$.15 | \$.12 |

† Use with 180890, pg 68

### Male Crimp Contacts – Fig. 4

| Part No. | Mfr.     | Product No. | AWG   | 10    | 100   | 1000  |
|----------|----------|-------------|-------|-------|-------|-------|
| 185421   | ValuePro | 1006-PP†    | 28-24 | \$.09 | \$.08 | \$.07 |
| 43377    | ValuePro | 500-055     | 28-24 | \$.12 | \$.09 | \$.08 |
| 223108   | AMP      | 66507-9     | 28-24 | \$.19 | \$.15 | \$.12 |
| 223095   | AMP      | 1-66507-0   | 28-24 | \$.19 | \$.15 | \$.12 |
| 223132   | AMP      | 745254-7    | 26-22 | \$.29 | \$.25 | \$.19 |
| 223191   | AMP      | 66506-9     | 24-20 | \$.19 | \$.15 | \$.12 |
| 223167   | AMP      | 1-66506-0   | 24-20 | \$.19 | \$.15 | \$.12 |
| 838399   | AMP      | 2-66506-4   | 24-20 | \$.09 | \$.08 | \$.07 |
| 223183   | AMP      | 5-66506-9   | 24-20 | \$.19 | \$.15 | \$.12 |
| 223175   | AMP      | 205202-7    | 24-20 | \$.35 | \$.29 | \$.25 |

† Use with 180882, pg 68

### Female Crimp Contact (M39029/63-368) – Fig. 5

• Machined

| Part No. | Mfr. | Product No. | 1     | 10    | 100   |
|----------|------|-------------|-------|-------|-------|
| 449351   | AMP  | 205090-1    | \$.55 | \$.45 | \$.39 |

### Male Crimp Contact (M39029/64-369) – Fig. 6

• Machined

| Part No. | Mfr. | Product No. | 1     | 10    | 100   |
|----------|------|-------------|-------|-------|-------|
| 449342   | AMP  | 205089-1    | \$.49 | \$.39 | \$.35 |

## AMP D-Sub Enclosure Kit

- Kit includes: (2) 4-40 jack screw (zinc alloy), lock thermoplastic connector insert, steel tin plated inner and outer shell, black PVC enclosure, 62-pin male D-sub connector



| Part No. | Mfr. | Part No. | 1      | 10     | 100    |
|----------|------|----------|--------|--------|--------|
| 837986   |      | 748476-1 | \$9.95 | \$8.95 | \$7.95 |

## .050" (1.27mm) Pitch LFH™ Matrix 50 Shielded Receptacle

### 60 Circuit, Vertical

- Same size as 15-pin D-sub for standard panel cut-outs and hardware use
- Volt./current: 40V @ 1A
- Contact resistance: 20mΩ max.
- Insulation resistance: 100MΩ min.
- Housing: glass filled polymer, UL94V-0
- Contact: beryllium copper alloy
- Plating: 30μ" min. gold over nickel in contact area, 100μ" min. tin/lead over nickel in PC tail area, 150μ" min. bright tin over nickel all over copper flash on shields



| Part No. | Mfr. | Part No.   | 1       | 10      |
|----------|------|------------|---------|---------|
| 802222   |      | 70928-0002 | \$11.95 | \$10.95 |

## D-Sub Connector Hoods

\* Web Code: DAB



- Use with D-sub solder cup and housing style connectors (hardware included)

D Series: Plastic hood with strain relief (gray)

MD Series: Metal coated plastic hood w/ strain relief

MH Series: Die-cast metal hood with strain relief

| Part No. | Mfr.     | Product No. | Pins | 1     | 10    | 100   |
|----------|----------|-------------|------|-------|-------|-------|
| 15722    | ValuePro | DB9H        | 9    | \$.59 | \$.49 | \$.39 |
| 25620    | ValuePro | MDB9H       | 9    | \$.65 | \$.55 | \$.45 |
| 147741   | ValuePro | MHDB9       | 9    | 1.59  | 1.39  | 1.19  |
| 230893   | AMP      | 205729-1†   | 9    | 2.49  | 2.25  | 1.95  |
| 15019    | ValuePro | DA15H       | 15   | \$.75 | \$.59 | \$.49 |
| 25567    | ValuePro | MDA15H      | 15   | \$.89 | \$.69 | \$.59 |
| 15086    | ValuePro | DB25H       | 25   | \$.59 | \$.49 | \$.39 |
| 25604    | ValuePro | MDB25H      | 25   | \$.89 | \$.69 | \$.59 |
| 15107    | ValuePro | MHDB25      | 25   | 2.25  | 1.95  | 1.75  |
| 230914   | AMP      | 205718-1†   | 25   | 1.75  | 1.59  | 1.45  |
| 15457    | ValuePro | DC37H       | 37   | \$.95 | \$.79 | \$.65 |
| 25612    | ValuePro | MDC37H      | 37   | \$.95 | \$.79 | \$.65 |
| 15660    | ValuePro | DD50H       | 50   | 1.25  | 1.09  | \$.95 |
| 230931   | AMP      | 205732-1†   | 50   | 2.29  | 2.09  | 1.95  |

† Plastic clam shell hood (black)

## Hardware for D-Sub Connector Hoods

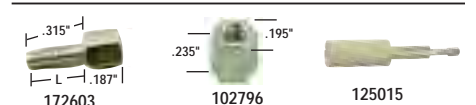


\* Web Code: PAM

### 4-40 Screw Sets

- 102808: (10) 4-40 screw (.385"L) and retainer set  
16548: (10) 4-40 x .187" jack screw (.31"L thread), washer, lock washer and nut set  
444912: (2) washers, lockwasher, hex nut and screw  
1575931: (2) nut-4-40 UNC, lock washer, 0.03" dia. spacer, jack socket screw

| Part No. | Mfr.     | Prod. No. | Plating* | 1     | 10    | 100   |
|----------|----------|-----------|----------|-------|-------|-------|
| 102808   | ValuePro | 14-553    | A        | \$.55 | \$.49 | \$.45 |
| 16548    | ValuePro | 14-522    | A        | \$.55 | \$.49 | \$.45 |
| 444912   | Cinch    | D20418-39 | C        | 1.69  | 1.49  | 1.35  |
| 1575931  | 3M       | 3341-1S   | A        | 2.49  | 2.25  | 1.95  |



### 4-40 x .187" Jack Screws

\* Order in multiples of 10

| Part No. | Mfr.     | Length | Plating* | 1     | 10    | 100   |
|----------|----------|--------|----------|-------|-------|-------|
| 839252   | AMP      | .250"  | A        | \$.29 | \$.25 | \$.19 |
| 169931   | ValuePro | .275"  | A        | *     | \$.19 | \$.15 |
| 172603   | ValuePro | .315"  | A        | *     | \$.19 | \$.15 |
| 2100283  | ValuePro | .315"  | D        | *     | \$.19 | \$.15 |
| 1582209  | Keystone | .315"  | C        | *     | \$.19 | \$.15 |
| 1582508  | Keystone | .315"  | B        | \$.29 | \$.25 | \$.19 |
| 102816   | ValuePro | .435"  | B        | \$.45 | \$.39 | \$.35 |
| 108987   | ValuePro | .515"  | A        | \$.49 | \$.45 | \$.39 |

### 4-40 x .187" Standoffs

| Part No. | Mfr.     | Length | Plating* | 1     | 10    | 100   |
|----------|----------|--------|----------|-------|-------|-------|
| 175636   | ValuePro | .187"  | B        | *     | \$.19 | \$.15 |
| 102796   | ValuePro | .235"  | A        | \$.35 | \$.29 | \$.25 |

### 4-40 Thumbscrews

| Part No. | Mfr.     | Length | Plating* | 1     | 10    | 100   |
|----------|----------|--------|----------|-------|-------|-------|
| 125015   | ValuePro | 1.65"  | A        | \$.29 | \$.25 | \$.19 |
| 614424   | AMP      | 1.92"  | A        | 1.49  | 1.29  | 1.15  |

\* A: Zinc, clear chromate B: Chrome C: Zinc, yellow chromate  
D: Chrome with lock washer

## 25-Pin Dual Plastic Hood

Designed for custom applications requiring two D-sub connectors.



Kit includes: Backshell and hardware

| Part No. | Description | 1      | 10     | 100    |
|----------|-------------|--------|--------|--------|
| 34091    | 25-pin hood | \$ .95 | \$ .85 | \$ .75 |

\* D-Sub Junction Shells Online — Enter Web Code JEM

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above



**molex** JAMECO ValuePro

- 5.03mm (.198") pitch
- Passive friction lock
- Housing: nylon; UL94V-2
- Temperature range: -40°C to +105°C
- Contact retention to housing: 20 lbs. min.

## Power Connectors



Free Hanging Plug (Matrix)



Panel Mount Plug (In-line)



Free Hanging Receptacle (Matrix)



Panel Mount Receptacle (In-line)



PCB Header (In-line)



PCB Header (Matrix)

### .062" (1.57mm) Plugs

\* Web Code: HBL

• Current: 5.0A

\* Order in multiples of 10

| Part No. | Mfr. No.   | Circuits | Type         | Pattern | Mating Conn. | 1         | 10     | 100    |
|----------|------------|----------|--------------|---------|--------------|-----------|--------|--------|
| 224477   | 03-06-2011 | 1        | Free hanging | In-line | 224397       | ..... *   | \$ .07 | \$ .05 |
| 224485   | 03-06-2023 | 2        | Free hanging | In-line | 224400       | ..... *   | .15    | .12    |
| 229948   | 03-06-2024 | 2        | Panel mount  | In-line | 229956       | ..... *   | .15    | .12    |
| 224493   | 03-06-2032 | 3        | Free hanging | In-line | 224418       | ..... .39 | .35    | .25    |
| 229964   | 03-06-2033 | 3        | Panel mount  | In-line | 229972       | ..... *   | .19    | .15    |
| 224506   | 03-06-2042 | 4        | Free hanging | In-line | 224426       | ..... *   | .19    | .15    |
| 224514   | 03-06-2044 | 4        | Free hanging | Matrix  | 224434       | ..... .39 | .35    | .29    |
| 224522   | 03-06-2061 | 6        | Free hanging | Matrix  | 224442       | ..... *   | .19    | .15    |
| 230041   | 03-06-2062 | 6        | Panel mount  | Matrix  | 230050       | ..... *   | .19    | .15    |
| 224531   | 03-06-2092 | 9        | Free hanging | Matrix  | 224451       | ..... .29 | .25    | .19    |

### .093" (2.36mm) Plugs

\* Web Code: CBL

• Current: 12A/circuit

\* Order in multiples of 10

| Part No. | Mfr. No.   | Circuits | Type         | Pattern | Mating Conn. | 1            | 10     | 100    |
|----------|------------|----------|--------------|---------|--------------|--------------|--------|--------|
| 224071   | 03-09-2022 | 2        | Free hanging | In-line | 224143       | ..... \$ .25 | \$ .22 | \$ .15 |
| 224080   | 03-09-2032 | 3        | Free hanging | In-line | 224151       | ..... .29    | .25    | .19    |
| 224098   | 03-09-2042 | 4        | Free hanging | In-line | 224160       | ..... .35    | .29    | .25    |
| 229825   | 03-09-2049 | 4        | Free hanging | Matrix  | 229817       | ..... *      | .19    | .15    |
| 230148   | 03-09-2041 | 4        | Panel mount  | In-line | 230156       | ..... *      | .19    | .15    |
| 224101   | 03-09-2062 | 6        | Free hanging | Matrix  | 224178       | ..... .35    | .29    | .25    |
| 743234   | 19-09-2068 | 6        | Panel mount  | In-line | 743189       | ..... *      | .19    | .15    |
| 224119   | 03-09-2092 | 9        | Free hanging | Matrix  | 224186       | ..... *      | .19    | .15    |
| 224127   | 03-09-2121 | 12       | Free hanging | Matrix  | —            | ..... *      | .19    | .15    |

† 6.71mm (.264") pitch # Positive lock, not detent lock ⚡ Blue Part No. = Limited Quantity Available

### .062" (1.57mm) Receptacles

\* Web Code: HBL

| Part No. | Mfr. No.   | Circuits | Type         | Pattern | Mating Conn. | 1         | 10     | 100    |
|----------|------------|----------|--------------|---------|--------------|-----------|--------|--------|
| 224397   | 03-06-1011 | 1        | Free hanging | In-line | 224477       | ..... *   | \$ .07 | \$ .05 |
| 224400   | 03-06-1023 | 2        | Free hanging | In-line | 224485       | ..... *   | .15    | .12    |
| 229956   | 03-06-1022 | 2        | Panel mount  | In-line | 229948       | ..... *   | .15    | .12    |
| 224418   | 03-06-1032 | 3        | Free hanging | In-line | 224493       | ..... *   | .15    | .12    |
| 229972   | 03-06-1038 | 3        | Panel mount  | In-line | 229964       | ..... *   | .19    | .15    |
| 224426   | 03-06-1042 | 4        | Free hanging | In-line | 224506       | ..... *   | .19    | .15    |
| 224434   | 03-06-1044 | 4        | Free hanging | Matrix  | 224514       | ..... .39 | .35    | .25    |
| 224442   | 03-06-1062 | 6        | Free hanging | Matrix  | 224522       | ..... .35 | .29    | .25    |
| 230050   | 03-06-1061 | 6        | Panel mount  | Matrix  | 230041       | ..... .35 | .29    | .25    |
| 224451   | 03-06-1092 | 9        | Free hanging | Matrix  | 224531       | ..... .35 | .29    | .25    |

### .093" (2.36mm) Receptacles

\* Web Code: CBL

| Part No. | Mfr. No.   | Circuits | Type         | Pattern | Mating Conn. | 1            | 10     | 100    |
|----------|------------|----------|--------------|---------|--------------|--------------|--------|--------|
| 224143   | 03-09-1022 | 2        | Free hanging | In-line | 224071       | ..... \$ .25 | \$ .22 | \$ .15 |
| 230130   | 03-09-1081 | 3        | Free hanging | In-line | 224080       | ..... *      | .15    | .12    |
| 224151   | 03-09-1032 | 3        | Free hanging | In-line | 224080       | ..... .29    | .25    | .19    |
| 224160   | 03-09-1042 | 4        | Free hanging | In-line | 224098       | ..... *      | .19    | .15    |
| 229817   | 03-09-1049 | 4        | Free hanging | Matrix  | 229825       | ..... *      | .19    | .15    |
| 230156   | 03-09-1041 | 4        | Panel mount  | In-line | 230148       | ..... *      | .19    | .15    |
| 224178   | 03-09-1064 | 6        | Free hanging | Matrix  | 224101       | ..... .29    | .25    | .19    |
| 224186   | 03-09-1094 | 9        | Free hanging | Matrix  | 224119       | ..... .39    | .35    | .29    |

⚡ Blue Part No. = Limited Quantity Available

### .084" (2.13mm) Plugs

| Part No. | Cross Ref. No. | Circuits | Type         | Pattern | Mating Conn. | 1       | 10     | 100    |
|----------|----------------|----------|--------------|---------|--------------|---------|--------|--------|
| 379276   | 50-84-1060     | 6        | Free hanging | Matrix  | 379348       | ..... * | \$ .15 | \$ .12 |
| 379305   | 50-84-1150     | 15       | Free hanging | Matrix  | 379372       | ..... * | .19    | .15    |

### .084" (2.13mm) Receptacles

| Part No. | Cross Ref. No. | Circuits | Type | Pattern | Mating Conn. | 1         | 10     | 100    |
|----------|----------------|----------|------|---------|--------------|-----------|--------|--------|
| 379381   | 10-84-4020     | 2        | PCB  | In-line | —            | ..... *   | \$ .15 | \$ .12 |
| 379401   | 10-84-4030     | 3        | PCB  | In-line | —            | ..... *   | .15    | .12    |
| 379428   | 10-84-4040     | 4        | PCB  | In-line | —            | ..... *   | .19    | .15    |
| 379444   | 10-84-4060     | 6        | PCB  | Matrix  | —            | ..... *   | .19    | .15    |
| 379461   | 10-84-4090     | 9        | PCB  | Matrix  | —            | ..... .35 | .29    | .25    |
| 379487   | 10-84-4120     | 12       | PCB  | Matrix  | —            | ..... .39 | .35    | .33    |

### .084" (2.13mm) Vertical Male Headers

| Part No. | Cross Ref. No. | Circuits | Type        | Pattern | Mating Conn. | 1       | 10     | 100    |
|----------|----------------|----------|-------------|---------|--------------|---------|--------|--------|
| 379321   | 50-84-2030     | 3        | Panel mount | In-line | —            | ..... * | \$ .09 | \$ .07 |
| 379330   | 50-84-2040     | 4        | Panel mount | In-line | —            | ..... * | .09    | .07    |
| 379348   | 50-84-2060     | 6        | Panel mount | Matrix  | 379276       | ..... * | .09    | .07    |
| 379364   | 50-84-2120     | 12       | Panel mount | Matrix  | —            | ..... * | .17    | .15    |
| 379372   | 50-84-2150     | 15       | Panel mount | Matrix  | 379305       | ..... * | .19    | .15    |

### .084" (2.13mm) Vertical Female Headers

| Part No. | Cross Ref. No. | Circuits | Type | Pattern | Mating Conn. | 1         | 10     | 100    |
|----------|----------------|----------|------|---------|--------------|-----------|--------|--------|
| 379399   | 10-84-4022     | 2        | PCB  | In-line | —            | ..... *   | \$ .15 | \$ .12 |
| 379410   | 10-84-4032     | 3        | PCB  | In-line | —            | ..... *   | .15    | .12    |
| 379436   | 10-84-4042     | 4        | PCB  | In-line | —            | ..... *   | .19    | .15    |
| 379452   | 10-84-4062     | 6        | PCB  | Matrix  | —            | ..... *   | .19    | .15    |
| 379479   | 10-84-4092     | 9        | PCB  | Matrix  | —            | ..... .29 | .27    | .25    |
| 379495   | 10-84-4122     | 12       | PCB  | Matrix  | —            | ..... .39 | .35    | .33    |
| 379516   | 10-84-4152     | 15       | PCB  | Matrix  | —            | ..... .49 | .45    | .39    |

**molex** JAMECO ValuePro

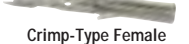
- Contact: brass or phosphor bronze
- Temp. range: -40°C to +105°C
- Tin plating



Crimp-Type Male



Solder-Tail Male



Crimp-Type Female



Solder-Tail Female

### .062" (1.57mm) Bulk

| Part No. | Mfr.  | Cross Ref. No. | Description | Gender | AWG   | 10           | 100    | 1000   |
|----------|-------|----------------|-------------|--------|-------|--------------|--------|--------|
| 224581   | Molex | 02-06-2132     | Crimp type  | M      | 24-30 | ..... \$ .09 | \$ .07 | \$ .05 |
| 224573   | Molex | 02-06-1132     | Crimp type  | F      | 24-30 | ..... .09    | .07    | .05    |
| 224565   | Molex | 02-06-2103     | Crimp type  | M      | 18-24 | ..... .09    | .07    | .05    |
| 224557   | Molex | 02-06-1103     | Crimp type  | F      | 18-24 | ..... .09    | .07    | .05    |
| 227379   | Molex | 02-06-8103     | Solder tail | M      | —     | ..... .12    | .09    | .07    |
| 227387   | Molex | 02-06-7103     | Solder tail | F      | —     | ..... .12    | .09    | .07    |

### .084" (2.13mm) Bulk

|        |          |             |            |   |       |              |        |        |
|--------|----------|-------------|------------|---|-------|--------------|--------|--------|
| 401314 | ValuePro | 02-08-1002C | Crimp type | F | 12-14 | ..... \$ .09 | \$ .07 | \$ .05 |
| 401331 | ValuePro | 02-08-1004C | Crimp type | F | 12-14 | ..... .09    | .07    | .05    |

## Power Connector Contacts

\* Web Code: JBL

### .084" (2.13mm) Bulk (Continued)

| Part No. | Mfr.     | Cross Ref. No. | Description | Gender | AWG   | 10           | 100    | 500    |
|----------|----------|----------------|-------------|--------|-------|--------------|--------|--------|
| 379524   | ValuePro | 02-08-1002B    | Crimp type  | F      | 16-20 | ..... \$ .09 | \$ .07 | \$ .05 |
| 401306   | ValuePro | 02-08-1002A    | Crimp type  | F      | 18-22 | ..... .09    | .07    | .05    |
| 401322   | ValuePro | 02-08-1004A    | Crimp type  | F      | 18-22 | ..... .09    | .07    | .05    |
| 401357   | ValuePro | 02-08-2004SC   | Crimp type  | M      | 12-14 | ..... .09    | .07    | .05    |
| 401373   | ValuePro | 02-08-2004LC   | Crimp type  | M      | 12-14 | ..... .09    | .07    | .05    |
| 379541   | ValuePro | 02-08-2004SB   | Crimp type  | M      | 16-20 | ..... .09    | .07    | .05    |
| 401349   | ValuePro | 02-08-2004SA   | Crimp type  | M      | 18-22 | ..... .09    | .07    | .05    |

⚡ Blue Part No. = Limited Quantity Available

### .093" (2.36mm) Bulk

|        |       |            |             |   |       |              |        |        |
|--------|-------|------------|-------------|---|-------|--------------|--------|--------|
| 224207 | Molex | 02-09-2118 | Crimp type  | M | 18-22 | ..... \$ .12 | \$ .09 | \$ .07 |
| 224215 | Molex | 02-09-1119 | Crimp type  | F | 18-22 | ..... .12    | .09    | .07    |
| 224223 | Molex | 02-09-2103 | Crimp type  | M | 14-20 | ..... .12    | .09    | .07    |
| 224231 | Molex | 02-09-1104 | Crimp type  | F | 14-20 | ..... .12    | .09    | .07    |
| 224240 | Molex | 02-09-2133 | Solder tail | M | —     | ..... .15    | .12    | .09    |
| 224258 | Molex | 02-09-1134 | Solder tail | F | —     | ..... .15    | .12    | .09    |

⚡ RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 197.

## molex .093" Power Connector Kits

Kit contains mating sets of housings and pins.

• Voltage: 250VAC • Temp. range: -40°C to +105°C

142181: • 3 ea. 2-pin plugs & receptacles,  
8 ea. female & male contacts • Current: 12A

142201: • 2 ea. 4-pin plugs & receptacles,  
10 ea. female & male contacts • Current: 9A



\* Web Code: CAV

Includes: Male and female tin-plated standard brass .010" pins; 18-22 AWG crimp size wire

| Part No. | Mfr. Part No. | Description     | 1      | 10     | 100    |
|----------|---------------|-----------------|--------|--------|--------|
| 142181   | 1545          | 2-pin kit ..... | \$4.49 | \$3.95 | \$3.49 |
| 142201   | 1490          | 4-pin kit ..... | 4.49   | 3.95   | 3.49   |

## .098" (2.49mm) Pitch AT Power Connectors

- Voltage rating: 250V AC/DC
- Current rating: 7A AC/DC
- Temperature range: -25°C to 85°C
- Withstanding volt.: 1500V/min.
- Insulation resistance: 1000MΩ min.
- For use with motherboards and power supplies
- Material: nylon

78300: • Size: 0.93"L x 0.37"W x 0.57"H

• Material of post: tin-plated brass

• Diameter of post: 0.09"

78327: • Size: 0.94"L x 0.25"W x 0.74"H

| Part No. | Description                | 1   | 10  | 100 |
|----------|----------------------------|-----|-----|-----|
| 78300    | 6-pin male header .....    | .29 | .25 | .22 |
| 78327    | 6-pin female housing ..... | .29 | .25 | .22 |

## Hand Crimp Tools

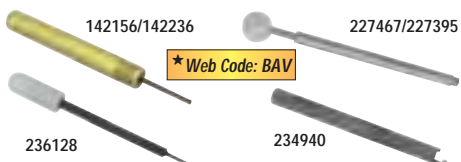
Designed to crimp terminals, strip and cut wires, and cut bolts. For Molex .062" & .093" crimp pin terminals and KK® series on page 75.

308030: Cuts & strips 14-24 AWG wires

227491: Cuts & strips 18-30 AWG wires

| Part No. | Mfr. Part No. | Length | Color        | 1       | 5       |
|----------|---------------|--------|--------------|---------|---------|
| 308030   | W-HT-1919     | 8.3"L  | Red .....    | \$14.95 | \$13.95 |
| 227491   | W-HT-1921     | 8.3"L  | Yellow ..... | 14.95   | 13.95   |

## Connector Extraction Tools



\* Web Code: BAV

| Part No. | Mfr. Part No. | AWG   | Conn. Size  | 1       | 5       |
|----------|---------------|-------|-------------|---------|---------|
| 142156   | W-HT-2285     | 14    | .062" ...   | \$14.95 | \$12.95 |
| 227467   | W-HT-2023     | 18-30 | .062" ..... | 10.95   | 9.85    |
| 142236   | W-HT-2038     | 14    | .093" ..... | 14.95   | 12.95   |
| 227395   | W-HT-2054     | 14-30 | .093" ..... | 10.95   | 9.85    |
| 236128   | W-HT-1884     | 22-30 | .100" ..... | 10.95   | 9.49    |
| 234940   | 11-03-0022    | 22-30 | .100" ..... | 5.95    | 5.49    |

Blue Part No. = Limited Quantity Available

\* Jumpers Available Online — Enter Web Code GAQ

## .118" Pitch ATX Power Connectors

\* Web Code: FEM

For Motherboards and Power Supplies

• Current rating: 7A AC/DC • Temperature range: -25°C to 85°C

147379: Material: nylon 66, UL-94V0

• Material of post: tin-plated brass • Diameter of post: 0.045"

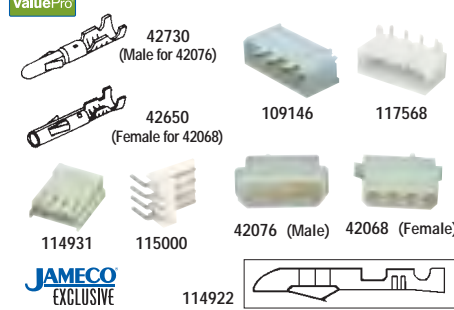
147387: Material: nylon 66, UL-94V0

147395: Material: tin-plated brass

| Part No. | Description              | L     | W    | H    | Dia    | Use With | 1      | 10     | 100    | 1000   |
|----------|--------------------------|-------|------|------|--------|----------|--------|--------|--------|--------|
| 147379   | 20-pin male connector    | 1.7"  | 0.4" | 0.6" | —      | —        | \$ .59 | \$ .55 | \$ .49 | \$ .45 |
| 147387   | 20-pin housing connector | 1.7"  | 0.4" | 0.8" | —      | 147395   | .59    | .55    | .49    | .45    |
| 147395   | Power terminal pin, F    | 0.59" | —    | —    | 0.068" | 147387   | *      | .15    | .12    | .09    |

\* Order in multiples of 10

## Power Connectors & Pins



Connector & Housing Specifications:

• Voltage rating: 250VAC (Mate-N-Lock 600VAC)

• Operating temperature: -55°C to +105°C

Crimp Pin Specifications:

• Material: tin plated brass

• Current rating: 1.5A

• Wire size range: 18-24 AWG

• Use crimp tool P/N 99443, pg 161

\* Web Code: KAP

.200" – For 5.25" Disk Drives & Power Supplies

42076 & 42068 Connector Housings:

• External key bar indicates pin 1

• Extraction tools, P/Ns 131887 & 131879 (see below)

• Keyed mating connectors

\* Order in multiples of 10

| Part No. | Description                               | 1      | 10     | 100    |
|----------|---|--------|--------|--------|
| 109146   | 4-pin male vert. PCB mtg. ....            | \$ .75 | \$ .65 | \$ .59 |
| 117568   | 4-pin male PCB mtg. horiz. edge mnt. .... | .95    | .85    | .75    |
| 42076    | 4-pin male housing .....                  | *      | .12    | .09    |
| 42068    | 4-pin female housing .....                | *      | .19    | .15    |
| 42730    | Male crimp pin for 42076 .....            | *      | .12    | .09    |
| 42650    | Female crimp pin for 42068 .....          | *      | .09    | .07    |

.100" – For 3.5" Disk Drives & Power Supplies

\* Order in multiples of 10

| Part No. | Description                             | 1      | 10     | 100    |
|----------|---|--------|--------|--------|
| 114931   | 4-pin female housing .....              | \$ .29 | \$ .22 | \$ .15 |
| 114922   | Female crimp pin for 114931 .....       | *      | .12    | .09    |
| 115000   | 4-pin male rt. angle PCB mounting ..... | .39    | .35    | .29    |

## Extraction Tools for Crimp Terminals

• Quickly and easily extract

.093" locking pins from

interlocking connectors

• Length: 5"

• See above for crimp pins

131887: Male tool for 42730, above

131879: Female tool for 42650, above

| Part No. | Cross Ref. No. | 1      | 5      |
|----------|----------------|--------|--------|
| 131887   | HT319C .....   | \$9.95 | \$8.95 |
| 131879   | HT319B .....   | 9.95   | 8.95   |



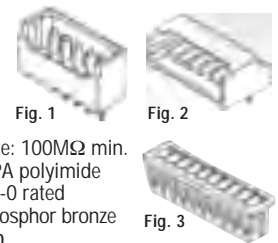
147379 147387 147395

\* Order in multiples of 10

| Part No. | Description              | L     | W    | H    | Dia    | Use With | 1      | 10     | 100    | 1000   |
|----------|--------------------------|-------|------|------|--------|----------|--------|--------|--------|--------|
| 147379   | 20-pin male connector    | 1.7"  | 0.4" | 0.6" | —      | —        | \$ .59 | \$ .55 | \$ .49 | \$ .45 |
| 147387   | 20-pin housing connector | 1.7"  | 0.4" | 0.8" | —      | 147395   | .59    | .55    | .49    | .45    |
| 147395   | Power terminal pin, F    | 0.59" | —    | —    | 0.068" | 147387   | *      | .15    | .12    | .09    |

## .049" (1.25mm) Pitch Headers and Housings

- Wire to board
- Blade pin
- Friction lock
- Current rating: 1A
- Contact resistance: 20mΩ max.
- Insulation resistance: 100MΩ min.
- Housing material: PA polyimide (Nylon) 6/6, UL94V-0 rated
- Contact material: phosphor bronze
- Order in multiples of 10



Shrouded Vertical Headers (Fig. 1)

| Part No. | Cross Ref. No.   | Circuits | 10     | 100    | 500    |
|----------|------------------|----------|--------|--------|--------|
| 420339   | 53047-0210 ..... | 2 .....  | \$ .15 | \$ .12 | \$ .09 |
| 420347   | 53047-0310 ..... | 3 .....  | .15    | .12    | .09    |
| 420363   | 53047-0510 ..... | 5 .....  | .15    | .12    | .09    |
| 420371   | 53047-0610 ..... | 6 .....  | .15    | .12    | .09    |
| 420380   | 53047-0710 ..... | 7 .....  | .15    | .12    | .09    |

Shrouded Right-Angle Headers (Fig. 2)

| Part No. | Cross Ref. No.   | Circuits | 10     | 100    | 500    |
|----------|------------------|----------|--------|--------|--------|
| 420427   | 53048-0210 ..... | 2 .....  | \$ .15 | \$ .12 | \$ .09 |
| 420435   | 53048-0310 ..... | 3 .....  | .15    | .12    | .09    |
| 420443   | 53048-0410 ..... | 4 .....  | .15    | .12    | .09    |
| 420451   | 53048-0510 ..... | 5 .....  | .15    | .12    | .09    |
| 420460   | 53048-0610 ..... | 6 .....  | .15    | .12    | .09    |
| 420486   | 53048-0810 ..... | 8 .....  | .15    | .12    | .09    |
| 420507   | 53048-1010 ..... | 10 ..... | .19    | .15    | .12    |

Housings (Fig. 3)

| Part No. | Cross Ref. No.   | Circuits | 10     | 100    | 500    |
|----------|------------------|----------|--------|--------|--------|
| 420241   | 51021-0200 ..... | 2 .....  | \$ .05 | \$ .04 | \$ .03 |
| 420259   | 51021-0300 ..... | 3 .....  | .05    | .04    | .03    |
| 420267   | 51021-0400 ..... | 4 .....  | .05    | .04    | .03    |
| 420275   | 51021-0500 ..... | 5 .....  | .05    | .04    | .03    |
| 420283   | 51021-0600 ..... | 6 .....  | .05    | .04    | .03    |
| 420291   | 51021-0700 ..... | 7 .....  | .05    | .04    | .03    |
| 420321   | 51021-1000 ..... | 10 ..... | .05    | .04    | .03    |

## molex Female Crimp Terminals

For above housings

- Contact material: phosphor bronze
- Plating contact: 0.9µm (35µ") tin
- Pre-plated



Order in multiples of 10

| Part No. | Mfr. Part No.    | AWG      | 10     | 100    | 500    |
|----------|------------------|----------|--------|--------|--------|
| 668457   | 50079-8100 ..... | 26-28 .. | \$ .09 | \$ .08 | \$ .07 |
| 668473   | 50058-8100 ..... | 28-32 .. | .12    | .09    | .07    |

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\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

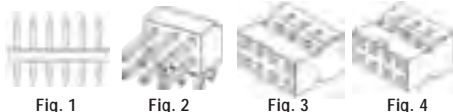
# Headers, Housings & IDC Connectors

3 LEVELS OF SAVINGS  
NAME BRANDS HOUSE BRANDS FACTORY OVERRUN



## .079" (2.00mm) Pitch Headers and Housings

- Voltage rating: 125V
- Contact resistance: 20mΩ max.
- Insulation resistance: 1000MΩ min.
- Housing material: PBT polyester
- Dielectric withstanding voltage: 250VAC/1 min.



\* Order in multiples of 10

### Dual Row Vertical Headers (Fig. 1)

| Part No. | Cross Ref. No. | Circuits | 1   | 10  | 100 |
|----------|----------------|----------|-----|-----|-----|
| 378521   | 87758-0416R    | 4        | ... | ... | ... |
| 378556   | 87758-1016R    | 10       | ... | ... | ... |
| 378572   | 87758-1416R    | 14       | ... | ... | ... |
| 378581   | 87758-1616R    | 16       | ... | ... | ... |
| 378599   | 87758-1816R    | 18       | ... | ... | ... |
| 378610   | 87758-2216R    | 22       | ... | ... | ... |
| 378628   | 87758-2416R    | 24       | ... | ... | ... |
| 378652   | 87758-3016R    | 30       | ... | ... | ... |
| 378708   | 87758-4016R    | 40       | ... | ... | ... |
| 378724   | 87758-4416R    | 44       | ... | ... | ... |
| 378759   | 87758-5016R    | 50       | ... | ... | ... |

### Right-Angle Headers (Fig. 2)

| Part No. | Cross Ref. No. | Circuits | 1   | 10  | 100 |
|----------|----------------|----------|-----|-----|-----|
| 378775   | 87760-0616R    | 6        | ... | ... | ... |
| 378783   | 87760-0816R    | 8        | ... | ... | ... |
| 378804   | 87760-1216R    | 12       | ... | ... | ... |
| 378812   | 87760-1416R    | 14       | ... | ... | ... |
| 378821   | 87760-1616R    | 16       | ... | ... | ... |
| 378839   | 87760-1816R    | 18       | ... | ... | ... |
| 378847   | 87760-2016R    | 20       | ... | ... | ... |

### Housings w/o Polarizing Key (Fig. 3)

| Part No. | Cross Ref. No. | Circuits | 1   | 10  | 100 |
|----------|----------------|----------|-----|-----|-----|
| 377991   | 51110-0850R    | 8        | ... | ... | ... |
| 378003   | 51110-1050R    | 10       | ... | ... | ... |
| 378011   | 51110-1250R    | 12       | ... | ... | ... |
| 378020   | 51110-1450R    | 14       | ... | ... | ... |
| 378038   | 51110-1650R    | 16       | ... | ... | ... |
| 378046   | 51110-1850R    | 18       | ... | ... | ... |
| 378054   | 51110-2050R    | 20       | ... | ... | ... |
| 378062   | 51110-2250R    | 22       | ... | ... | ... |
| 378071   | 51110-2450R    | 24       | ... | ... | ... |
| 378089   | 51110-2650R    | 26       | ... | ... | ... |
| 378097   | 51110-2850R    | 28       | ... | ... | ... |
| 378100   | 51110-3050R    | 30       | ... | ... | ... |

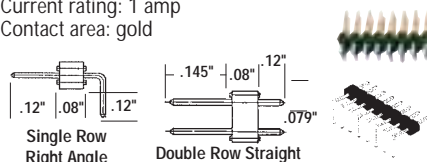
### Housings w/ Polarizing Key (Fig. 4)

| Part No. | Cross Ref. No. | Circuits | 1   | 10  | 100 |
|----------|----------------|----------|-----|-----|-----|
| 378142   | 51110-0851R    | 8        | ... | ... | ... |
| 378151   | 51110-1051R    | 10       | ... | ... | ... |
| 378169   | 51110-1251R    | 12       | ... | ... | ... |
| 378177   | 51110-1451R    | 14       | ... | ... | ... |
| 378185   | 51110-1651R    | 16       | ... | ... | ... |
| 378193   | 51110-1851R    | 18       | ... | ... | ... |
| 378206   | 51110-2051R    | 20       | ... | ... | ... |
| 378214   | 51110-2251R    | 22       | ... | ... | ... |
| 378222   | 51110-2451R    | 24       | ... | ... | ... |
| 378231   | 51110-2651R    | 26       | ... | ... | ... |
| 378249   | 51110-2851R    | 28       | ... | ... | ... |
| 378257   | 51110-3051R    | 30       | ... | ... | ... |

## .079" (2.00mm) Male Headers

- Solder to PC boards for instant plug-in access via shorting blocks (pg 74)
- Insulator: UL94V-0 polyester
- Contact material: phosphor bronze
- Temperature range: -55°C to +120°C
- .025" square posts on a .100" x .100" matrix
- Use with crimp connector housing, pg 81
- Current rating: 1 amp
- Contact area: gold

\* Web Code: VMH



\* Order in multiples of 10

### Right Angle Single Row Male Headers

| Part No. | Product No. | Contacts | 1   | 10  | 100 | 1000 |
|----------|-------------|----------|-----|-----|-----|------|
| 2076914  | 079RA12     | 2        | ... | ... | ... | ...  |
| 2076922  | 079RA14     | 4        | ... | ... | ... | ...  |
| 2076931  | 079RA15     | 5        | ... | ... | ... | ...  |
| 2076949  | 079RA110    | 10       | ... | ... | ... | ...  |

### Straight Single Row Male Headers

| Part No. | Product No. | Contacts | 1   | 10  | 100 | 500 |
|----------|-------------|----------|-----|-----|-----|-----|
| 2076957  | 079SS2      | 2        | ... | ... | ... | ... |
| 2077087  | 079SS3      | 3        | ... | ... | ... | ... |
| 2077095  | 079SS4      | 4        | ... | ... | ... | ... |
| 2077108  | 079SS6      | 6        | ... | ... | ... | ... |
| 2077116  | 079SS10     | 10       | ... | ... | ... | ... |
| 2077124  | 079SS14     | 14       | ... | ... | ... | ... |
| 2077132  | 079SS20     | 20       | ... | ... | ... | ... |

### Straight Double Row Male Headers

| Part No. | Product No. | Contacts | 1   | 10  | 100 | 500 |
|----------|-------------|----------|-----|-----|-----|-----|
| 2077141  | 079DH4      | 4        | ... | ... | ... | ... |
| 2077167  | 079DH6      | 6        | ... | ... | ... | ... |
| 2077204  | 079DH8      | 8        | ... | ... | ... | ... |
| 2076965  | 079DH10     | 10       | ... | ... | ... | ... |
| 2076973  | 079DH12     | 12       | ... | ... | ... | ... |
| 2076981  | 079DH14     | 14       | ... | ... | ... | ... |
| 2076990  | 079DH16     | 16       | ... | ... | ... | ... |
| 2077001  | 079DH20     | 20       | ... | ... | ... | ... |
| 2077010  | 079DH26     | 26       | ... | ... | ... | ... |
| 2077028  | 079DH30     | 30       | ... | ... | ... | ... |
| 2077036  | 079DH40     | 40       | ... | ... | ... | ... |

⊕ Blue Part No. = Limited Quantity Available

## Milli-Grid™ Female Crimp Terminal

### For 51110 Series Housings on left

- Lead free
- Contact material: phosphor bronze
- Plating contact: 0.38μm (15μ") gold
- Under plating: nickel

molex



Order in multiples of 10

| Part No. | Mfr. No.    | AWG   | 10  | 100 | 500 |
|----------|-------------|-------|-----|-----|-----|
| 668465   | 50394-8100R | 24-30 | ... | ... | ... |



## .100" (2.54mm) PCB Connector

\* Web Code: YBZ

### Receptacle, Top Entry with Hooks (Tin/Brass)

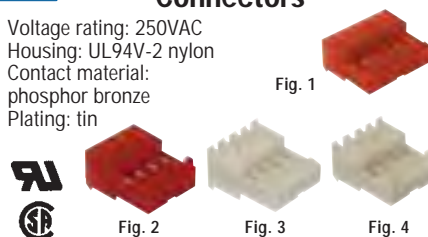
- Accepts 0.025" square posts
- Voltage rating: 250VAC
- Contact resistance: 40mΩ max.
- Insulation material: nylon 6/6, UL94V-2
- Withstanding voltage: 1000VAC/min.

| Part No. | Mfr. Part No. | Pos. | 1   | 10  | 100 |
|----------|---------------|------|-----|-----|-----|
| 688394   | 2405S09V000R  | 9    | ... | ... | ... |



## .100" (2.54mm) IDC Connectors

- Voltage rating: 250VAC
- Housing: UL94V-2 nylon
- Contact material: phosphor bronze
- Plating: tin



\* Order in multiples of 10

### Closed-End Style

#### Without Polarizing Tabs (Fig. 1)

| Part No. | Product No. | Pos. | AWG Color | 1   | 10  | 100 |
|----------|-------------|------|-----------|-----|-----|-----|
| 345631   | 640440-5    | 5    | 22 Red    | ... | ... | ... |
| 345640   | 640440-6    | 6    | 22 Red    | ... | ... | ... |
| 345738   | 640441-6    | 6    | 24 White  | ... | ... | ... |
| 345746   | 640441-7    | 7    | 24 White  | ... | ... | ... |
| 345771   | 1-640441-0  | 10   | 24 White  | ... | ... | ... |
| 345800   | 1-640442-4  | 4    | 26 Blue   | ... | ... | ... |

#### With Polarizing Tabs (Fig. 2)

| Part No. | Product No. | Pos. | AWG Color | 1   | 10  | 100 |
|----------|-------------|------|-----------|-----|-----|-----|
| 345973   | 643813-3    | 3    | 22 Red    | ... | ... | ... |
| 345990   | 643813-5    | 5    | 22 Red    | ... | ... | ... |
| 346028   | 643813-8    | 8    | 22 Red    | ... | ... | ... |
| 346044   | 1-643813-0  | 10   | 22 Red    | ... | ... | ... |
| 346087   | 643814-5    | 5    | 24 White  | ... | ... | ... |
| 346095   | 643814-6    | 6    | 24 White  | ... | ... | ... |
| 346108   | 643814-7    | 7    | 24 White  | ... | ... | ... |
| 346116   | 643814-8    | 8    | 24 White  | ... | ... | ... |

### Feed-Thru Style

#### Without Polarizing Tabs (Fig. 3)

| Part No. | Product No. | Pos. | AWG Color | 1   | 10  | 100 |
|----------|-------------|------|-----------|-----|-----|-----|
| 346327   | 640620-2    | 2    | 22 Red    | ... | ... | ... |
| 346343   | 640620-4    | 4    | 22 Red    | ... | ... | ... |
| 346351   | 640620-5    | 5    | 22 Red    | ... | ... | ... |
| 346360   | 640620-6    | 6    | 22 Red    | ... | ... | ... |
| 346378   | 640620-7    | 7    | 22 Red    | ... | ... | ... |
| 346394   | 640620-9    | 9    | 22 Red    | ... | ... | ... |
| 346407   | 1-640620-0  | 10   | 22 Red    | ... | ... | ... |
| 346423   | 640621-3    | 3    | 24 White  | ... | ... | ... |
| 346440   | 640621-5    | 5    | 24 White  | ... | ... | ... |
| 346458   | 640621-6    | 6    | 24 White  | ... | ... | ... |
| 346474   | 640621-8    | 8    | 24 White  | ... | ... | ... |
| 346482   | 640621-9    | 9    | 24 White  | ... | ... | ... |
| 346685   | 644540-2    | 2    | 22 Red    | ... | ... | ... |
| 346693   | 644540-3    | 3    | 22 Red    | ... | ... | ... |
| 346706   | 644540-4    | 4    | 22 Red    | ... | ... | ... |
| 346722   | 644540-6    | 6    | 22 Red    | ... | ... | ... |
| 346731   | 644540-7    | 7    | 22 Red    | ... | ... | ... |
| 346749   | 644540-8    | 8    | 22 Red    | ... | ... | ... |

#### With Polarizing Tabs (Fig. 4)

| Part No. | Product No. | Pos. | AWG Color | 1   | 10  | 100 |
|----------|-------------|------|-----------|-----|-----|-----|
| 346765   | 1-644540-0  | 10   | 22 Red    | ... | ... | ... |
| 346773   | 644563-2    | 2    | 24 White  | ... | ... | ... |
| 346781   | 644563-3    | 3    | 24 White  | ... | ... | ... |
| 346790   | 644563-4    | 4    | 24 White  | ... | ... | ... |
| 346811   | 644563-6    | 6    | 24 White  | ... | ... | ... |
| 346837   | 644563-8    | 8    | 24 White  | ... | ... | ... |
| 346853   | 1-644563-0  | 10   | 24 White  | ... | ... | ... |

Ⓡ RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 197.



## AMP MTA-100 .100" (2.54mm) IDC Connectors

**Closed-End Style w/o Polarizing Tabs w/ Locking Ramp**

- Contacts: phosphor bronze, tin-plated
- Voltage rating: 250VAC
- Current rating: 5A

\* Web Code: CCV

524710

| Part No. | Product No. | Pos. | AWG | Color | 1     | 10    | 100   |
|----------|-------------|------|-----|-------|-------|-------|-------|
| 524710   | 640440-4    | 4    | 22  | Red   | ..... | \$.15 | \$.12 |
| 524681   | 1-640440-2  | 12   | 22  | Red   | ....  | .39   | .35   |

\* Order in multiples of 10

## .100" Strain Relief Covers

Fig. 1

Fig. 2

Order in multiples of 10

| Part No. | Cross Ref. | Fig. | Style      | Pos. | 1     | 10    | 100   |
|----------|------------|------|------------|------|-------|-------|-------|
| 326019   | 643075-2   | 1    | Closed-end | 2    | ..... | \$.09 | \$.07 |
| 326027   | 643075-3   | 1    | Closed-end | 3    | ..... | .09   | .07   |
| 326035   | 643075-4   | 1    | Closed-end | 4    | ..... | .09   | .07   |
| 326043   | 643075-5   | 1    | Closed-end | 5    | ..... | .09   | .07   |
| 326051   | 643075-6   | 1    | Closed-end | 6    | ..... | .09   | .07   |
| 326060   | 643075-7   | 1    | Closed-end | 7    | ..... | .09   | .07   |
| 326078   | 643075-8   | 1    | Closed-end | 8    | ..... | .09   | .07   |
| 326086   | 643075-9   | 1    | Closed-end | 9    | ..... | .09   | .07   |
| 326094   | 1-643075-0 | 1    | Closed-end | 10   | ..... | .12   | .09   |
| 326107   | 643077-2   | 2    | Feed-thru  | 2    | ..... | .09   | .07   |
| 326115   | 643077-3   | 2    | Feed-thru  | 3    | ..... | .09   | .07   |
| 326123   | 643077-4   | 2    | Feed-thru  | 4    | ..... | .09   | .07   |
| 326131   | 643077-5   | 2    | Feed-thru  | 5    | ..... | .09   | .07   |
| 326140   | 643077-6   | 2    | Feed-thru  | 6    | ..... | .09   | .07   |
| 326158   | 643077-7   | 2    | Feed-thru  | 7    | ..... | .09   | .07   |
| 326166   | 643077-8   | 2    | Feed-thru  | 8    | ..... | .09   | .07   |
| 326174   | 643077-9   | 2    | Feed-thru  | 9    | ..... | .09   | .07   |
| 326182   | 1-643077-0 | 2    | Feed-thru  | 10   | ..... | .12   | .09   |

## AMP T-Handle Tool

- For .100" (2.54mm) IDC connectors

| Part No. | Mfr. P/N | Description     | 1       | 5       |
|----------|----------|-----------------|---------|---------|
| 365974   | 59803-1  | .100" hand tool | \$21.95 | \$19.95 |



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## .156" (3.96mm) IDC Connectors

AMP MTA-156 Series Value Equivalents

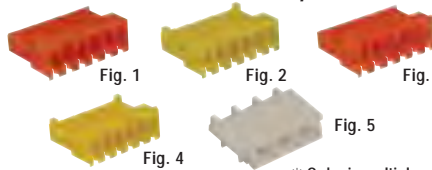


Fig. 1

Fig. 2

Fig. 3

Fig. 4

Fig. 5

\* Order in multiples of 10

### Closed-End Style

With Locking Ramp, w/o Polarizing Tabs (Fig. 1)

| Part No. | Product No. | Pos. | AWG | Color  | 1     | 10    | 100   |
|----------|-------------|------|-----|--------|-------|-------|-------|
| 397431   | 640426-2R   | 2    | 18  | Orange | ..... | \$.15 | \$.12 |
| 397440   | 640426-3R   | 3    | 18  | Orange | ..... | .15   | .12   |
| 397474   | 640426-6R   | 6    | 18  | Orange | ..... | .15   | .12   |
| 397520   | 640427-2R   | 2    | 20  | Yellow | ..... | .15   | .12   |
| 397554   | 640427-5R   | 5    | 20  | Yellow | ..... | .15   | .12   |
| 397562   | 640427-6R   | 6    | 20  | Yellow | ..... | .15   | .12   |

With Locking Ramp, Polarizing Tabs (Fig. 2)

| Part No. | Product No. | Pos. | AWG | Color  | 1     | 10    | 100   |
|----------|-------------|------|-----|--------|-------|-------|-------|
| 397618   | 643817-2R   | 2    | 18  | Orange | ..... | \$.15 | \$.12 |
| 397626   | 643817-3R   | 3    | 18  | Orange | ..... | .15   | .12   |
| 397634   | 643817-4R   | 4    | 18  | Orange | ..... | .15   | .12   |
| 397642   | 643817-5R   | 5    | 18  | Orange | ..... | .15   | .12   |
| 397651   | 643817-6R   | 6    | 18  | Orange | ..... | .15   | .12   |
| 397706   | 643818-2R   | 2    | 20  | Yellow | ..... | .15   | .12   |
| 397714   | 643818-3R   | 3    | 20  | Yellow | ..... | .15   | .12   |
| 397722   | 643818-4R   | 4    | 20  | Yellow | ..... | .15   | .12   |
| 397731   | 643818-5R   | 5    | 20  | Yellow | ..... | .15   | .12   |
| 397749   | 643818-6R   | 6    | 20  | Yellow | ..... | .15   | .12   |

Strain Relief Covers for Closed-End Style

| Part No. | Product No. | Pos. | 1     | 10    | 100   |
|----------|-------------|------|-------|-------|-------|
| 398696   | 643067-2R   | 2    | ..... | \$.09 | \$.07 |
| 398709   | 643067-3R   | 3    | ..... | .09   | .07   |
| 398717   | 643067-4R   | 4    | ..... | .09   | .07   |
| 398725   | 643067-5R   | 5    | ..... | .09   | .07   |

### Feed-Thru Style

With Locking Ramp, w/o Polarizing Tabs (Fig. 3)

| Part No. | Product No. | Pos. | AWG | Color  | 1     | 10    | 100   |
|----------|-------------|------|-----|--------|-------|-------|-------|
| 397802   | 640599-3R   | 3    | 18  | Orange | ..... | \$.15 | \$.12 |
| 397829   | 640599-5R   | 5    | 18  | Orange | ..... | .15   | .12   |
| 397837   | 640599-6R   | 6    | 18  | Orange | ..... | .15   | .12   |
| 397888   | 640600-2R   | 2    | 20  | Yellow | ..... | .15   | .12   |
| 397909   | 640600-4R   | 4    | 20  | Yellow | ..... | .15   | .12   |
| 397917   | 640600-5R   | 5    | 20  | Yellow | ..... | .15   | .12   |
| 397925   | 640600-6R   | 6    | 20  | Yellow | ..... | .15   | .12   |

With Locking Ramp, Polarizing Tabs (Fig. 4)

| Part No. | Product No. | Pos. | AWG | Color  | 1     | 10    | 100   |
|----------|-------------|------|-----|--------|-------|-------|-------|
| 397984   | 644465-3R   | 3    | 18  | Orange | ..... | \$.15 | \$.12 |
| 397992   | 644465-4R   | 4    | 18  | Orange | ..... | .15   | .12   |
| 398004   | 644465-5R   | 5    | 18  | Orange | ..... | .15   | .12   |
| 398012   | 644465-6R   | 6    | 18  | Orange | ..... | .15   | .12   |
| 398063   | 644466-2R   | 2    | 20  | Yellow | ..... | .15   | .12   |
| 398071   | 644466-3R   | 3    | 20  | Yellow | ..... | .15   | .12   |
| 398080   | 644466-4R   | 4    | 20  | Yellow | ..... | .15   | .12   |
| 398098   | 644466-5R   | 5    | 20  | Yellow | ..... | .15   | .12   |
| 398101   | 644466-6R   | 6    | 20  | Yellow | ..... | .15   | .12   |

Strain Relief Covers for Feed-Thru Style (Fig. 5)

| Part No. | Product No. | Pos. | 1     | 10    | 100   |
|----------|-------------|------|-------|-------|-------|
| 398602   | 643071-2R   | 2    | ..... | \$.09 | \$.07 |
| 398611   | 643071-3R   | 3    | ..... | .09   | .07   |
| 398629   | 643071-4R   | 4    | ..... | .09   | .07   |
| 398637   | 643071-5R   | 5    | ..... | .09   | .07   |
| 398645   | 643071-6R   | 6    | ..... | .09   | .07   |

## Commercial MATE-N-LOK™ Connectors & Terminals

- Fully polarized nylon housing
- UL94V-2 rated housing
- Durability: 50 cycles, mating and unmating



Fig. 1

Fig. 2

Fig. 3

PCB In-Line Vert. Pin Header w/ Detent Lock (Fig. 1)

| Part No. | Product No. | Pos. | 1     | 10    | 100   |
|----------|-------------|------|-------|-------|-------|
| 679607   | 350210-1R   | 3    | ..... | \$.55 | \$.49 |
| 679674   | 350214-1R   | 16   | ..... | .65   | .59   |

PCB In-Line Vert. Socket Header w/ Detent (Fig. 2)

| Part No. | Product No. | Pos. | 1     | 10    | 100   |
|----------|-------------|------|-------|-------|-------|
| 679682   | 770997-1R   | 4    | ..... | \$.79 | \$.69 |

PCB In-Line Vert. Pin Header w/ Positive Lock (Fig. 3)

| Part No. | Product No. | Pos. | 1     | 10    | 100   |
|----------|-------------|------|-------|-------|-------|
| 679594   | 350541-1R   | 3    | ..... | \$.89 | \$.79 |
| 679615   | 350543-1R   | 4    | ..... | .89   | .79   |



Fig. 4

Fig. 5

Fig. 6

\* Order in multiples of 10

PCB Dual Row Vertical Pin Header w/ Positive Lock (Fig. 4)

| Part No. | Product No. | Pos.       | 1     | 10     | 100    |
|----------|-------------|------------|-------|--------|--------|
| 679623   | 350425-1R   | 6 (2 x 3)  | ..... | \$1.35 | \$1.19 |
| 679640   | 1-380991-0R | 10 (2 x 5) | ..... | .79    | .75    |
| 679666   | 350214-1R   | 16 (2 x 8) | ..... | 2.29   | 1.95   |

In-Line Housing Plug, Free Hanging (Fig. 5)

| Part No. | Product No. | Pos. | 1     | 10    | 100   |
|----------|-------------|------|-------|-------|-------|
| 527099   | 1-480303-0R | 3    | ..... | \$.19 | \$.15 |
| 679383   | 770827-1R   | 4    | ..... | .29   | .25   |

In-Line Housing Cap, Free Hanging (Fig. 6)

| Part No. | Product No. | Pos. | 1     | 10    | 100   |
|----------|-------------|------|-------|-------|-------|
| 679308   | 1-480350-0R | 1    | ..... | \$.12 | \$.09 |
| 679316   | 1-480351-0R | 1    | ..... | .12   | .09   |

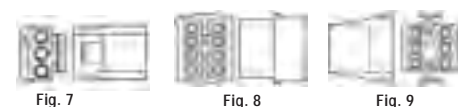


Fig. 7

Fig. 8

Fig. 9

\* Order in multiples of 10

In-Line Housing Plug, Free Hanging w/ Positive Lock (Fig. 7)

| Part No. | Product No. | Pos. | 1     | 10    | 100   |
|----------|-------------|------|-------|-------|-------|
| 679367   | 1-480721-0R | 3    | ..... | \$.39 | \$.35 |
| 679375   | 1-480722-0R | 4    | ..... | .35   | .29   |

Dual Row Housing Cap w/ Positive Lock (Fig. 8)

| Part No. | Product No. | Pos.       | 1     | 10    | 100   |
|----------|-------------|------------|-------|-------|-------|
| 679332   | 1-480340-0R | 6 (2 x 3)  | ..... | \$.19 | \$.17 |
| 679341   | 1-480345-0R | 8 (2 x 4)  | ..... | .29   | .25   |
| 679359   | 1-480339-0R | 10 (2 x 5) | ..... | .59   | .49   |

Motor Mount, Dual Row Plug w/ Positive Lock (Fig. 9)

| Part No. | Product No. | Pos.       | 1     | 10    | 100   |
|----------|-------------|------------|-------|-------|-------|
| 679391   | 1-480283-0R | 8 (2 x 3)  | ..... | \$.35 | \$.29 |
| 679404   | 1-480285-0R | 10 (2 x 5) | ..... | .39   | .35   |
| 679412   | 1-480287-0R | 12 (2 x 6) | ..... | .39   | .35   |
| 679421   | 1-480438-0R | 16 (2 x 8) | ..... | .55   | .49   |

Continued on next page

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

# Commercial Connectors, Shorting Blocks & Headers

3 LEVELS OF SAVINGS  
NAME BRANDS HOUSE BRANDS FACTORY OVERRUN

## AMP Commercial MATE-N-LOK™ Connectors & Terminals (Cont.)



### Motor Mount, Dual Row Cap with Positive Lock (Fig. 10)

\* Order in multiples of 10

| Part No. | Mfr. Part No. | Pos.       | 1     | 10    | 100 |
|----------|---------------|------------|-------|-------|-----|
| 679527   | 1-480271-0    | 6 (2 x 3)  | \$.19 | \$.15 |     |
| 679535   | 1-480284-0    | 8 (2 x 4)  | .29   | .25   | .19 |
| 679543   | 1-480286-0    | 10 (2 x 5) | 1.29  | 1.15  | .95 |
| 679551   | 1-480288-0    | 12 (2 x 6) | .35   | .29   | .25 |
| 679560   | 1-480439-0    | 16 (2 x 8) | .49   | .45   | .39 |

### Panel Mount Housing Plug with Positive Lock (Fig. 11)

\* Order in multiples of 10

| Part No. | Mfr. Part No. | Pos.       | 1     | 10    | 100 |
|----------|---------------|------------|-------|-------|-----|
| 679471   | 1-480304-0    | 3 (1 x 3)  | \$.19 | \$.15 |     |
| 679498   | 1-480274-0    | 9 (3 x 3)  | .65   | .59   | .55 |
| 679501   | 1-480275-0    | 12 (3 x 4) | .39   | .35   | .29 |
| 679519   | 1-480323-0    | 15 (3 x 5) | .49   | .45   | .39 |

### Panel Mount Housing Cap with Positive Lock (Fig. 12)

| Part No. | Mfr. Part No. | Pos.       | 1     | 10    | 100   |
|----------|---------------|------------|-------|-------|-------|
| 679447   | 1-480277-0    | 9 (3 x 3)  | \$.39 | \$.35 | \$.29 |
| 679463   | 1-480324-0    | 15 (3 x 5) | .49   | .45   | .39   |

### Vertical In-Line IDC (Fig. 13)

| Part No. | Mfr. Part No. | Pos. | AWG | 1     | 10    | 100   |
|----------|---------------|------|-----|-------|-------|-------|
| 679691   | 770156-4      | 4    | 20  | \$.49 | \$.45 | \$.39 |
| 679703   | 770156-3      | 4    | 18  | .45   | .39   | .35   |

### IDC Dust Covers (Fig. 14)

Order in multiples of 10

| Part No. | Mfr. Part No. | Pos. | Style     | 10    | 100   |
|----------|---------------|------|-----------|-------|-------|
| 679711   | 770232-1      | 4    | Feed-to   | \$.12 | \$.09 |
| 679720   | 770233-1      | 4    | Feed-thru | .19   | .15   |

### Crimp Terminals (Fig. 15)

\* Material: A-brass pre-tin; B-phosphor bronze/pre-tin

Order in multiples of 10

| Part No. | Mfr. Part No. | Type   | AWG   | Material | 10    | 100   |
|----------|---------------|--------|-------|----------|-------|-------|
| 526168   | 60619-1       | Socket | 20-14 | A        | \$.15 | \$.12 |
| 526125   | 60620-1       | Pin    | 20-14 | A        | .12   | .09   |
| 847009   | 350922-3      | Pin    | 12-10 | B        | .12   | .09   |
| 845652   | 350536-3      | Socket | 20-14 | B        | .05   | .04   |

[www.Jameco.com/TechCenter](http://www.Jameco.com/TechCenter)

## JAMECO ValuePro .100" & 2mm Shorting Blocks



- Mates to .025" square posts on .100" centers
- Shorts headers/jumper blocks or color code strip line plugs
- Mate with male headers, above
- Pin material: phosphor bronze

\*Web Code: MAC

Open: Open on top to allow for a test point

Closed: Closed top

119264: 2mm (for disk drives)

Order in multiples of 10

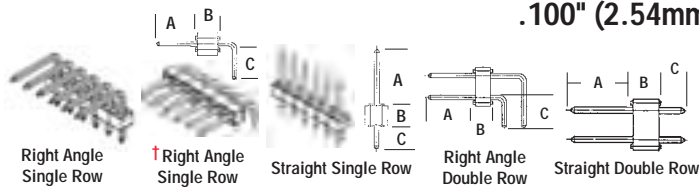
| Part No. | Description               | 10    | 100   | 500   |
|----------|---------------------------|-------|-------|-------|
| 22024    | Top open, black (.100")   | \$.12 | \$.09 | \$.07 |
| 119264   | Top open, black (2mm)     | .12   | .09   | .07   |
| 112425   | Top open, blue (.100")    | .10   | .07   | .05   |
| 112417   | Top open, red (.100")     | .10   | .07   | .05   |
| 19141    | Top closed, black (.100") | .10   | .07   | .05   |
| 112442   | Top closed, blue (.100")  | .10   | .07   | .05   |
| 112432   | Top closed, red (.100")   | .10   | .07   | .05   |
| 152671   | Top closed, black (.100") | .15   | .12   | .09   |

## AMP AMPMODU™ Shunt

- 2 position low profile
- 94V-0 rated housing
- Black
- Contact: phosphor bronze
- One-piece contact construction

Order in multiples of 10

| Part No. | Mfr. Part No. | Plating  | 10    | 100   |
|----------|---------------|----------|-------|-------|
| 421454   | 382811-8      | 5µ" gold | \$.09 | \$.07 |



### Right Angle Single Row Male Headers

\*Web Code: DAH

| Part No. | Manufacturer | Product No.     | Pos. | Size (A"xB"xC") | Plating | 1     | 10    | 100   |
|----------|--------------|-----------------|------|-----------------|---------|-------|-------|-------|
| 2076842  | Various      | RMH5            | 5    | .27 x .10 x .12 | Gold    | \$.29 | \$.25 | \$.19 |
| 2076851  | Various      | RMH6            | 6    | .27 x .10 x .12 | Gold    | .29   | .25   | .19   |
| 153728   | ValuePro     | RMH8            | 8    | .27 x .10 x .12 | Gold    | .39   | .35   | .29   |
| 2076869  | Various      | RMH26           | 26   | .27 x .10 x .12 | Gold    | .55   | .45   | .35   |
| 103271   | ValuePro     | RMH36 (LP)      | 36   | .23 x .10 x .12 | Gold    | .95   | .79   | .65   |
| 1946041  | ValuePro     | RMH36AR(type A) | 36   | .27 x .10 x .22 | Gold    | .85   | .69   | .55   |

† Low profile

### Straight Single Row Male Headers

\*Web Code: TAM

\* Order in multiples of 10

| Part No. | Manufacturer | Product No. | Pos. | Size (A"xB"xC") | Plating  | 1     | 10    | 100 |
|----------|--------------|-------------|------|-----------------|----------|-------|-------|-----|
| 2076797  | Various      | SMH01       | 1    | .23 x .10 x .12 | Gold     | \$.07 | \$.05 |     |
| 222966   | Various      | SMH01GT-43  | 1    | .43 x .10 x .12 | Gold/Tin | .15   | .11   |     |
| 108337   | Various      | SMH02+      | 2    | .23 x .10 x .12 | Gold     | .25   | .22   | .15 |
| 421489   | AMP          | 103185-3    | 3    | .23 x .09 x .12 | Gold/Tin | .15   | .12   |     |
| 109576   | ValuePro     | SMH03       | 3    | .23 x .10 x .12 | Gold     | .35   | .29   | .25 |
| 117560   | ValuePro     | SMH04       | 4    | .23 x .10 x .12 | Gold     | .29   | .25   | .19 |
| 2076789  | Various      | SMH05       | 5    | .23 x .10 x .12 | Gold     | .15   | .12   |     |
| 153700   | ValuePro     | SMH06       | 6    | .23 x .10 x .12 | Gold     | .29   | .25   | .19 |
| 2076800  | Various      | SMH07       | 7    | .23 x .10 x .12 | Gold     | .12   | .09   |     |
| 687181   | Leoco        | 2556P07JL62 | 7    | .23 x .10 x .12 | Gold/Tin | .19   | .15   |     |
| 153702   | ValuePro     | SMH08       | 8    | .23 x .10 x .12 | Gold     | .29   | .25   | .19 |
| 2076818  | Various      | SMH09       | 9    | .23 x .10 x .12 | Gold     | .12   | .09   |     |
| 103393   | ValuePro     | SMH10       | 10   | .23 x .10 x .12 | Gold     | .35   | .29   | .25 |

\*Dimension "A" has gold plating; dimension "C" has tin plating

## .100" (2.54mm) Male Headers

### Straight Single Row Male Headers (Continued)

\*Web Code: TAM

| Part No. | Manufacturer | Product No. | Pos. | Size (A"xB"xC") | Plating  | 1     | 10    | 100   |
|----------|--------------|-------------|------|-----------------|----------|-------|-------|-------|
| 103377   | ValuePro     | SMH17       | 17   | .23 x .10 x .12 | Gold     | \$.35 | \$.29 | \$.25 |
| 103369   | ValuePro     | SMH20       | 20   | .23 x .10 x .12 | Gold     | .35   | .29   | .25   |
| 202825   | ValuePro     | SMH22       | 22   | .23 x .10 x .12 | Gold     | .35   | .29   | .25   |
| 103351   | ValuePro     | SMH25       | 25   | .23 x .10 x .12 | Gold     | .39   | .35   | .25   |
| 103342   | ValuePro     | SMH30       | 30   | .23 x .10 x .12 | Gold     | .39   | .35   | .25   |
| 222991   | Various      | SMH32GT     | 32   | .23 x .10 x .12 | Gold/Tin | .39   | .29   | .25   |
| 2076826  | Various      | SMH34       | 34   | .23 x .10 x .12 | Gold     | .39   | .35   | .25   |
| 68339    | ValuePro     | SMH36       | 36   | .23 x .10 x .12 | Gold     | .45   | .35   | .29   |
| 160882   | ValuePro     | SMH40       | 40   | .23 x .10 x .12 | Gold     | .59   | .49   | .39   |
| 527654   | AMP          | 4-102976-0  | 40   | .32 x .09 x .12 | Gold/Tin | 2.49  | 2.25  | 1.95  |

\*Dimension "A" has gold plating; dimension "C" has tin plating

### Right Angle Double Row Male Headers

\*Web Code: DAP

\* Position: 4 is 2 rows of 2; 12 is 2 rows of 6 (example)

\* Order in multiples of 10

| Part No. | Manufacturer | Product No. | Pos. | Size (A"xB"xC") | Plating | 1     | 10    | 100 |
|----------|--------------|-------------|------|-----------------|---------|-------|-------|-----|
| 203908   | ValuePro     | 923804DR    | 4    | .23 x .10 x .12 | Gold    | \$.09 | \$.07 |     |
| 203917   | ValuePro     | 923806DR    | 6    | .23 x .10 x .12 | Gold    | .15   | .12   |     |
| 203924   | ValuePro     | 923808DR    | 8    | .23 x .10 x .12 | Gold    | .19   | .15   |     |
| 203932   | ValuePro     | 923810DR    | 10   | .23 x .10 x .12 | Gold    | .29   | .25   | .19 |
| 203941   | ValuePro     | 923812DR    | 12   | .23 x .10 x .12 | Gold    | .15   | .12   |     |
| 2099930  | Various      | 923814DRT   | 14   | .23 x .10 x .12 | Tin     | .12   | .09   |     |
| 203959   | ValuePro     | 923814DR    | 14   | .23 x .10 x .12 | Gold    | .15   | .12   |     |
| 203967   | ValuePro     | 923816DR    | 16   | .23 x .10 x .12 | Gold    | .39   | .29   | .25 |
| 203975   | ValuePro     | 923818DR    | 18   | .23 x .10 x .12 | Gold    | .35   | .29   | .25 |
| 53576    | ValuePro     | 923820DR    | 20   | .23 x .10 x .12 | Gold    | .49   | .39   | .35 |
| 53583    | Various      | 9238260DR+  | 26   | .23 x .10 x .12 | Gold    | .55   | .45   | .35 |
| 53605    | Various      | 923840DR    | 40   | .23 x .10 x .12 | Gold    | .75   | .65   | .55 |
| 53612    | ValuePro     | 923850DR    | 50   | .23 x .10 x .12 | Gold    | .75   | .65   | .55 |
| 103413   | ValuePro     | 923872DR    | 72   | .23 x .10 x .12 | Gold    | .85   | .69   | .59 |
| 139564   | ValuePro     | 923880DR    | 80   | .23 x .10 x .12 | Gold    | 1.19  | .99   | .85 |

Straight Double Row Male Headers on next page

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 197.

## .100" (2.54mm) Male Headers (Continued)

**molex**

**JAMECO ValuePro**

### Straight Double Row Male Headers

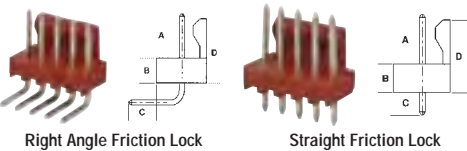
\* Web Code: QCM

• Position: 4 is 2 rows of 2; 12 is 2 rows of 6 (example)

| * Order in multiples of 10 |              |             |      |                  |          |        |       |       |     |
|----------------------------|--------------|-------------|------|------------------|----------|--------|-------|-------|-----|
| Part No.                   | Manufacturer | Product No. | Pos. | Size (A"xB"xC")* | Plating  | 1      | 10    | 100   |     |
| 15156                      | Various      | DMH04GT     | 4    | .23 x .10 x .12  | Gold/Tin | .....* | \$.09 | \$.08 |     |
| 115027                     | Various      | 923804DS+   | 4    | .23 x .10 x .12  | Gold     | .....* | .15   | .12   |     |
| 115035                     | ValuePro     | 923806DS    | 6    | .23 x .10 x .12  | Gold     | .....  | .29   | .25   | .19 |
| 15158                      | Various      | DMH06T-30   | 6    | .30 x .10 x .12  | Tin      | .....* | .15   | .12   |     |
| 15747                      | Various      | DMH06-30    | 6    | .30 x .10 x .12  | Gold     | .....  | .29   | .25   | .19 |
| 109516                     | Various      | 923808DS+   | 8    | .23 x .10 x .12  | Gold     | .....  | .29   | .25   | .19 |
| 67821                      | ValuePro     | 923810DS    | 10   | .23 x .10 x .12  | Gold     | .....  | .35   | .29   | .25 |
| 203810                     | ValuePro     | 923812DS    | 12   | .23 x .10 x .12  | Gold     | .....  | .39   | .29   | .25 |
| 118456                     | ValuePro     | 923814DS    | 14   | .23 x .10 x .12  | Gold     | .....  | .49   | .39   | .35 |
| 109568                     | ValuePro     | 923816DS    | 16   | .23 x .10 x .12  | Gold     | .....  | .55   | .45   | .39 |
| 2076877                    | Various      | 923818DS    | 18   | .23 x .10 x .12  | Gold     | .....  | .55   | .45   | .35 |
| 53480                      | ValuePro     | 923820DS    | 20   | .23 x .10 x .12  | Gold     | .....  | .65   | .55   | .45 |
| 203844                     | ValuePro     | 923824DS    | 24   | .23 x .10 x .12  | Gold     | .....  | .75   | .59   | .49 |
| 53495                      | Various      | 923826DS    | 26   | .23 x .10 x .12  | Gold     | .....  | .75   | .59   | .49 |
| 203852                     | ValuePro     | 923828DS    | 28   | .23 x .10 x .12  | Gold     | .....  | .35   | .29   | .25 |
| 203861                     | ValuePro     | 923832DS    | 32   | .23 x .10 x .12  | Gold     | .....  | .75   | .59   | .49 |
| 53517                      | ValuePro     | 923834DS    | 34   | .23 x .10 x .12  | Gold     | .....  | .75   | .59   | .49 |
| 203888                     | ValuePro     | 923836DS    | 36   | .23 x .10 x .12  | Gold     | .....  | .85   | .69   | .55 |
| 203895                     | ValuePro     | 923838DS    | 38   | .23 x .10 x .12  | Gold     | .....  | .49   | .39   | .25 |
| 53532                      | Various      | 923840DS    | 40   | .23 x .10 x .12  | Gold     | .....  | .75   | .59   | .49 |

\* For sizes please reference pictures on previous page

## .100" (2.54mm) Standard and Friction Lock Headers



\* Web Code: GBN

### Right Angle Friction Lock Headers

\* Order in multiples of 10

| Part No. | Mfr.     | Product No. | Pos. | Size (A"xB"xC"xD")    | Plating | 1      | 10    | 100   |     |
|----------|----------|-------------|------|-----------------------|---------|--------|-------|-------|-----|
| 233437   | Molex    | 22-05-3021  | 2    | .26 x .13 x .14 x .32 | Tin     | .....* | \$.15 | \$.12 |     |
| 348234   | ValuePro | 641216-2    | 2    | .30 x .10 x .14 x .31 | Gold    | .....  | .25   | .22   | .15 |
| 233445   | Molex    | 22-05-3031  | 3    | .26 x .13 x .14 x .32 | Tin     | .....  | .29   | .25   | .19 |
| 348242   | ValuePro | 641216-3    | 3    | .30 x .10 x .14 x .31 | Gold    | .....* | .19   | .17   |     |
| 233453   | Molex    | 22-05-3041  | 4    | .26 x .13 x .14 x .32 | Tin     | .....  | .35   | .29   | .25 |
| 233699   | Molex    | 22-12-2044  | 4    | .26 x .13 x .12 x .32 | Gold    | .....  | .49   | .45   | .39 |
| 348251   | ValuePro | 641216-4    | 4    | .30 x .10 x .14 x .31 | Gold    | .....* | .19   | .17   |     |
| 233461   | Molex    | 22-05-3051  | 5    | .26 x .13 x .14 x .32 | Tin     | .....  | .45   | .35   | .29 |
| 233470   | Molex    | 22-05-3061  | 6    | .26 x .13 x .14 x .32 | Tin     | .....  | .49   | .39   | .35 |
| 348277   | ValuePro | 641216-6    | 6    | .30 x .10 x .14 x .31 | Gold    | .....  | .45   | .39   | .35 |
| 348285   | ValuePro | 641216-7    | 7    | .30 x .10 x .14 x .31 | Gold    | .....  | .49   | .45   | .39 |
| 233496   | Molex    | 22-05-3081  | 8    | .26 x .13 x .14 x .32 | Tin     | .....  | .45   | .39   | .35 |
| 348293   | ValuePro | 641216-8    | 8    | .30 x .10 x .14 x .31 | Gold    | .....  | .55   | .49   | .45 |
| 348315   | ValuePro | 4-641216-0  | 10   | .30 x .10 x .14 x .31 | Gold    | .....* | .69   | .65   |     |

### Standard Straight Post

Blue Part No. = Limited Quantity Available

| Part No. | Mfr.     | Product No. | Pos. | Size (A"xB"xC")  | Plating | 1      | 10    | 100   |     |
|----------|----------|-------------|------|------------------|---------|--------|-------|-------|-----|
| 347400   | ValuePro | 644659-9†   | 9    | .30 x .10 x .110 | Tin     | .....* | \$.15 | \$.12 |     |
| 232240   | Molex    | 22-03-2121  | 12   | .30 x .13 x .135 | Tin     | .....  | .29   | .25   | .22 |

† With retentive leg

**molex**

- Contact resistance: 20mΩ max.
- Dielectric withstanding voltage: 1500VAC
- Insulation resistance: 50kMΩ
- Voltage: 250V

### Housing Material:

- Contact retention to housing: 8 lbs. min.
- Contact insertion force: 1.5 lbs. max.
- Housing: nylon, UL94V-0
- Operating temperature: 0 to 75°C



234721



234801

## KK® Series .100" (2.54mm) Female Housings

### Housing with Locking Ramp

\* Order in multiples of 10

| Part No. | Mfr.       | Part No. | Pos.   | 1     | 10    | 100 |
|----------|------------|----------|--------|-------|-------|-----|
| 234704   | 22-01-2027 | 2        | .....* | \$.15 | \$.07 |     |
| 234712   | 22-01-2037 | 3        | .....  | .29   | .25   | .19 |
| 234721   | 22-01-2047 | 4        | .....  | .29   | .25   | .19 |
| 234739   | 22-01-2057 | 5        | .....  | .35   | .29   | .19 |
| 234747   | 22-01-2067 | 6        | .....  | .39   | .35   | .29 |
| 234771   | 22-01-2107 | 10       | .....  | .59   | .55   | .39 |

### Housing w/ Locking Ramp & Polarizing Ribs

\* Order in multiples of 10

| Part No. | Mfr.       | Part No. | Pos.   | 1     | 10    | 100 |
|----------|------------|----------|--------|-------|-------|-----|
| 234798   | 22-01-3027 | 2        | .....* | \$.15 | \$.07 |     |
| 234801   | 22-01-3037 | 3        | .....  | .29   | .25   | .19 |
| 234819   | 22-01-3047 | 4        | .....  | .29   | .25   | .19 |
| 234827   | 22-01-3057 | 5        | .....  | .39   | .35   | .29 |
| 234835   | 22-01-3067 | 6        | .....  | .45   | .39   | .35 |
| 234851   | 22-01-3087 | 8        | .....  | .55   | .49   | .35 |
| 234878   | 22-01-3107 | 10       | .....  | .59   | .55   | .49 |

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above



## molex® KK® Series .100" (2.54mm) Crimp Terminals

- Current: phosphor bronze – 4.0A max.; brass – 2.5A max.
- Insulation range: 0.062" (1.58mm) diameter max.
- Accommodates 22 to 30 AWG
- Material: 736456/736501/234923/234931: brass; 736595/462969/463005: phosphor bronze

★ Web Code: JCT



### Bulk Packaged

|          |               | Order in multiples of 10 |       |             |
|----------|---------------|--------------------------|-------|-------------|
| Part No. | Mfr. Part No. | Plating                  | 10    | 100 1000    |
| 736501   | 08-50-0113    | Tin                      | \$.05 | \$.04 \$.03 |
| 234923   | 08-50-0114    | Tin                      | .06   | .05 .04     |
| 234931   | 08-55-0102    | 15µ" gold                | .15   | .12 .11     |
| 736595   | 08-52-0123    | Tin                      | .09   | .08 .07     |
| 462969   | 08-65-0805    | Tin (cat ear)            | .09   | .08 .07     |
| 463005   | 08-65-0816    | 15µ" gold                | .19   | .15 .13     |

## KK® Series .100" (2.54mm) Pitch Crimp Terminal Housings

### High Pressure

- Voltage: 250V
- Current: 2.5A
- Contact resistance: 20mΩ max.
- Dielectric withstanding voltage: 1500VAC
- Insulation resistance: 500k MΩ min.
- Housing: white nylon, UL04V-0

molex®



516242

\* Order in multiples of 10

| Part No. | Mfr. Part No. | Pos. | 1       | 10    | 100   |
|----------|---------------|------|---------|-------|-------|
| 516200   | 10-11-2013    | 1    | ..... * | \$.09 | \$.07 |
| 516218   | 10-11-2023    | 2    | ..... * | .09   | .07   |
| 516234   | 10-11-2043    | 4    | ..... * | .12   | .09   |
| 516242   | 10-11-2053    | 5    | ..... * | .09   | .07   |

### Crimp Terminal

- Female
- 22-30 AWG



Order in multiples of 10

| Part No. | Mfr. Part No. | Plating    | 10    | 100   | 1000  |
|----------|---------------|------------|-------|-------|-------|
| 736456   | 08-50-0005    | Tin/copper | \$.15 | \$.12 | \$.09 |

## .100" (2.54mm) Pitch SL™ Wire-to-Board Crimp Housings

### Single Row

- Housing: black glass filled polyester, UL94V-0



884301

884328

### Version A, Non-polarized

★ Web Code: VDD

| Part No. | Mfr. Part No. | Pos. | 1       | 10    | 100         |
|----------|---------------|------|---------|-------|-------------|
| 884301   | 50-57-9002    | 2    | ..... * | \$.25 | \$.22 \$.15 |

### Version G, Positive Latch

\* Order in multiples of 10

| Part No. | Mfr. Part No. | Pos. | 1       | 10    | 100     |
|----------|---------------|------|---------|-------|---------|
| 884328   | 50-57-9402    | 2    | ..... * | \$.19 | \$.15   |
| 884344   | 50-57-9403    | 3    | ..... * | .25   | .22 .15 |
| 884379   | 50-57-9404    | 4    | ..... * | .12   | .09     |

### Female Crimp Terminals



741685

Order in multiples of 10

| Part No. | Mfr. Part No. | AWG   | Plating   | 10    | 100   |
|----------|---------------|-------|-----------|-------|-------|
| 741685   | 16-02-0103    | 22-24 | 15µ" gold | \$.09 | \$.08 |
| 741677   | 16-02-0086    | 22-24 | Tin       | .07   | .06   |

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## .118" (3.0mm) Pitch Micro-Fit Housings and Headers

- Housing: polyester, UL94V-0
- Fully polarized to mating connector

★ Web Code: UBW



### Receptacles

#### Single Row (Fig. 1)

\* Order in multiples of 10

| Part No. | Mfr.     | Cross Ref. No. | Pos. | 1       | 10    | 100   |
|----------|----------|----------------|------|---------|-------|-------|
| 338351   | ValuePro | 43645-0200     | 2    | ..... * | \$.15 | \$.12 |

#### Double Row (Fig. 2)

| Part No. | Mfr.     | Product No. | Pos. | 1       | 10    | 100     |
|----------|----------|-------------|------|---------|-------|---------|
| 337682   | ValuePro | 43025-0600  | 6    | ..... * | \$.15 | \$.12   |
| 882921   | Molex    | 43025-0800  | 8    | ..... * | .35   | .29 .25 |
| 337703   | ValuePro | 43025-1000  | 10   | ..... * | .12   | .09     |
| 337834   | ValuePro | 43025-1400  | 14   | ..... * | .35   | .29 .25 |
| 337869   | ValuePro | 43025-2000  | 20   | ..... * | .19   | .15     |
| 337877   | ValuePro | 43025-2400  | 24   | ..... * | .19   | .15     |

Ⓢ Blue P/N = Limited Quantity Available

### Plugs

Order in multiples of 10

#### Single Row, Panel Mount w/ Ears (Fig. 3)

| Part No. | Mfr.     | Cross Ref. No. | Pos. | 10           | 100   |
|----------|----------|----------------|------|--------------|-------|
| 338255   | ValuePro | 43640-0200     | 2    | ..... \$ .09 | \$.07 |
| 338271   | ValuePro | 43640-0300     | 3    | ..... .12    | .09   |
| 338298   | ValuePro | 43640-0400     | 4    | ..... .12    | .09   |
| 338319   | ValuePro | 43640-0500     | 5    | ..... .12    | .09   |
| 338335   | ValuePro | 43640-0600     | 6    | ..... .12    | .09   |

#### Single Row, Free Hanging (Fig. 4)

| Part No. | Mfr.     | Cross Ref. No. | Pos. | 10           | 100   |
|----------|----------|----------------|------|--------------|-------|
| 338263   | ValuePro | 43640-0201     | 2    | ..... \$ .15 | \$.12 |
| 338301   | ValuePro | 43640-0401     | 4    | ..... .12    | .09   |
| 338327   | ValuePro | 43640-0501     | 5    | ..... .12    | .09   |
| 338343   | ValuePro | 43640-0601     | 6    | ..... .12    | .09   |

#### Double Row, Free Hanging (Fig. 5)

| Part No. | Mfr.     | Cross Ref. No. | Pos. | 10          | 100   |
|----------|----------|----------------|------|-------------|-------|
| 337800   | ValuePro | 43020-0201     | 2    | .....\$ .09 | \$.07 |
| 337615   | ValuePro | 43020-0601     | 6    | ..... .09   | .07   |
| 337658   | ValuePro | 43020-1001     | 10   | ..... .12   | .09   |

### Plugs (Continued)

\* Order in multiples of 10

#### Double Row, Panel Mount w/ Ears (Fig. 6)

| Part No. | Mfr.     | Cross Ref. No. | Pos. | 1       | 10    | 100   |
|----------|----------|----------------|------|---------|-------|-------|
| 337586   | ValuePro | 43020-0200     | 2    | ..... * | \$.09 | \$.07 |
| 337594   | ValuePro | 43020-0400     | 4    | ..... * | .09   | .07   |
| 337607   | ValuePro | 43020-0600     | 6    | ..... * | .09   | .07   |
| 337623   | ValuePro | 43020-0800     | 8    | ..... * | .12   | .09   |
| 337640   | ValuePro | 43020-1000     | 10   | ..... * | .12   | .09   |
| 337826   | ValuePro | 43020-1200     | 12   | ..... * | .19   | .15   |

Ⓢ Blue P/N = Limited Quantity Available

### Single Row Headers

\* Order in multiples of 10

#### Right Angle, Snap-In Plastic Peg, PCB – Tin (Fig. 7)

| Part No. | Mfr.     | Cross Ref. No. | Pos. | 1       | 10    | 100   |
|----------|----------|----------------|------|---------|-------|-------|
| 338431   | ValuePro | 43650-0300     | 3    | ..... * | \$.15 | \$.12 |
| 338466   | ValuePro | 43650-0400     | 4    | ..... * | .15   | .12   |
| 338491   | ValuePro | 43650-0500     | 5    | ..... * | .15   | .12   |

#### Right Angle, Snap-In Plastic Peg, PCB – 15µ" gold (Fig. 7)

| Part No. | Mfr.     | Cross Ref. No. | Pos. | 1       | 10    | 100   |
|----------|----------|----------------|------|---------|-------|-------|
| 338642   | ValuePro | 43650-0301     | 3    | ..... * | \$.19 | \$.15 |
| 338651   | ValuePro | 43650-0401     | 4    | ..... * | .19   | .15   |

#### Right Angle, SMT – Tin (Fig. 8)

- Solderable fitting nail provides retention to PCB

| Part No. | Mfr.  | Mfr. Part No. | Pos. | 1    | 10   | 100  |
|----------|-------|---------------|------|------|------|------|
| 338423   | Molex | 43650-0212    | 2    | 1.59 | 1.45 | 1.29 |
| 338458   | Molex | 43650-0312    | 3    | 1.59 | 1.45 | 1.29 |
| 338482   | Molex | 43650-0412    | 4    | 1.39 | 1.25 | 1.09 |
| 338546   | Molex | 43650-0612    | 6    | 2.19 | 1.95 | 1.75 |

### Single Row Headers (Continued)

#### Right Angle, SMT – 15µ" gold (Fig. 9)

- Solderable retention clip

| Part No. | Mfr.  | Mfr. Part No. | Pos. | 1    | 10   | 100  |
|----------|-------|---------------|------|------|------|------|
| 338415   | Molex | 43650-0210    | 2    | 1.59 | 1.45 | 1.29 |
| 338440   | Molex | 43650-0310    | 3    | 1.69 | 1.55 | 1.39 |
| 338474   | Molex | 43650-0410    | 4    | 1.95 | 1.79 | 1.65 |
| 338503   | Molex | 43650-0510    | 5    | 2.19 | 1.95 | 1.75 |
| 338538   | Molex | 43650-0610    | 6    | 2.29 | 2.09 | 1.95 |

### Double Row Headers

\* Order in multiples of 10

#### Right Angle, Snap-In Plastic Peg, PCB – Tin (Fig. 10)

| Part No. | Mfr.     | Product No. | Pos. | 1       | 10    | 100   |
|----------|----------|-------------|------|---------|-------|-------|
| 883317   | Molex    | 43045-0400  | 4    | \$.45   | \$.39 | \$.35 |
| 338044   | ValuePro | 43045-0600  | 6    | ..... * | .19   | .15   |
| 338554   | ValuePro | 43045-0800  | 8    | ..... * | .19   | .15   |
| 338562   | ValuePro | 43045-1000  | 10   | ..... * | .19   | .15   |
| 338212   | ValuePro | 43045-1200  | 12   | ..... * | .19   | .15   |
| 338571   | ValuePro | 43045-1400  | 14   | ..39    | .35   | .29   |
| 338597   | ValuePro | 43045-1600  | 16   | ..35    | .29   | .25   |

#### Right Angle, Snap-In Plastic Peg, PCB – 30µ" Gold (Fig. 10)

| Part No. | Mfr.     | Cross Ref. No. | Pos. | 1       | 10    | 100     |
|----------|----------|----------------|------|---------|-------|---------|
| 337893   | ValuePro | 43045-0202     | 2    | ..... * | \$.19 | \$.15   |
| 337973   | ValuePro | 43045-0402     | 4    | ..... * | .29   | .25 .22 |
| 338052   | ValuePro | 43045-0602     | 6    | ..... * | .45   | .39 .35 |
| 338116   | ValuePro | 43045-0802     | 8    | ..... * | .49   | .45 .39 |
| 338167   | ValuePro | 43045-1002     | 10   | ..... * | .55   | .49 .45 |
| 338221   | ValuePro | 43045-1202     | 12   | ..... * | .65   | .59 .55 |
| 338618   | ValuePro | 43045-2202     | 22   | 1.35    | 1.19  | 1.09    |

Continued on next page

Ⓢ RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 197.

## .118" (3.00mm) Pitch Micro-Fit Housings and Headers (Continued)

### Double Row Headers (Cont.)

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JAMECO ValuePro

Figure line art on previous page

Right Angle, SMT – Tin (Fig. 11) \* Order in multiples of 10  
• Solderable fitting nail provides retention to PCB

| Part No. | Mfr.  | Mfr. Part No. | Pos. | 1    | 10    | 100   |
|----------|-------|---------------|------|------|-------|-------|
| 337906   | Molex | 43045-0209    | 2    | .... | \$.69 | \$.59 |
| 337981   | Molex | 43045-0409    | 4    | .... | .95   | .75   |
| 338061   | Molex | 43045-0609    | 6    | .... | .69   | .59   |

### Right Angle, SMT – 30µ" Gold (Fig. 11)

• Solderable fitting nail provides retention to PCB

| Part No. | Mfr.  | Mfr. Part No. | Pos. | 1    | 10     | 100    |
|----------|-------|---------------|------|------|--------|--------|
| 337914   | Molex | 43045-0211    | 2    | 1.95 | \$1.75 | \$1.59 |
| 337990   | Molex | 43045-0411    | 4    | 1.39 | 1.25   | 1.09   |
| 338124   | Molex | 43045-0811    | 8    | 1.69 | 1.55   | 1.49   |

### Vertical, Polarizing Peg, PCB – Tin (Fig. 12)

| Part No. | Mfr.     | Cross Ref. No. | Pos. | 1    | 10    | 100   |
|----------|----------|----------------|------|------|-------|-------|
| 337922   | ValuePro | 43045-0212     | 2    | .... | \$.12 | \$.09 |
| 338001   | ValuePro | 43045-0412     | 4    | .... | .15   | .12   |
| 338079   | ValuePro | 43045-0612     | 6    | .... | .12   | .09   |
| 338132   | ValuePro | 43045-0812     | 8    | .... | .15   | .12   |
| 338175   | ValuePro | 43045-1012     | 10   | .... | .19   | .15   |
| 338239   | ValuePro | 43045-1212     | 12   | .... | .19   | .15   |

### Vertical, Polarizing Peg, PCB – 30µ" Gold (Fig. 12)

| Part No. | Mfr.     | Cross Ref. No. | Pos. | 1    | 10    | 100   |
|----------|----------|----------------|------|------|-------|-------|
| 337931   | ValuePro | 43045-0214     | 2    | .... | \$.15 | \$.12 |
| 338010   | ValuePro | 43045-0414     | 4    | .... | .19   | .17   |
| 338087   | ValuePro | 43045-0614     | 6    | .... | .29   | .25   |
| 338141   | ValuePro | 43045-0814     | 8    | .... | .19   | .17   |
| 338183   | ValuePro | 43045-1014     | 10   | .... | .49   | .45   |
| 338247   | ValuePro | 43045-1214     | 12   | .... | .55   | .49   |

### Vertical, Solder Tab, SMT – Tin (Fig. 13)

| Part No. | Mfr.  | Mfr. Part No. | Pos. | 1    | 10    | 100   |
|----------|-------|---------------|------|------|-------|-------|
| 338028   | Molex | 43045-0418    | 4    | ..   | \$.95 | \$.85 |
| 338159   | Molex | 43045-0818    | 8    | 2.49 | 2.25  | 1.95  |
| 338191   | Molex | 43045-1018    | 10   | 1.39 | 1.25  | 1.09  |

### Vertical, Solder Tab, SMT – 30µ" Gold (Fig. 13)

| Part No. | Mfr.  | Mfr. Part No. | Pos. | 1    | 10     | 100    |
|----------|-------|---------------|------|------|--------|--------|
| 337957   | Molex | 43045-0220    | 2    | 1.95 | \$1.75 | \$1.59 |
| 338108   | Molex | 43045-0620    | 6    | 2.69 | 2.49   | 2.25   |
| 338204   | Molex | 43045-1020    | 10   | 3.49 | 3.19   | 2.95   |

## .118" (3.00mm) Micro-Fit Crimp Terminals

A: phosphor bronze, tin  
B: phosphor bronze, 15µ" gold  
C: phosphor bronze, 30µ" gold



| Part No. | Mfr.     | Product No. | Type | AWG   | 10    | 100   |
|----------|----------|-------------|------|-------|-------|-------|
| 337720   | ValuePro | 43030-0007  | 1A   | 20-24 | \$.09 | \$.08 |
| 883093   | Molex    | 43030-0007  | 1A   | 20-24 | .12   | .09   |
| 337738   | ValuePro | 43030-0009  | 1B   | 26-30 | .12   | .09   |
| 337746   | ValuePro | 43030-0010  | 1A   | 20-24 | .09   | .08   |
| 337754   | ValuePro | 43030-0012  | 1C   | 26-30 | .19   | .15   |
| 337762   | ValuePro | 43031-0007  | 2A   | 20-24 | .09   | .08   |
| 337789   | ValuePro | 43031-0010  | 2A   | 26-30 | .05   | .04   |

Blue Part No. = Limited Quantity Available

## Tools for Micro-Fit Connectors



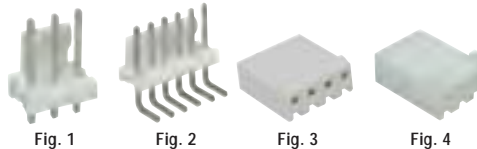
| Part No. | Cross Ref. No. | Description | Length | 1       | 5       |
|----------|----------------|-------------|--------|---------|---------|
| 338678   | HT-225D        | Crimp       | 8.25"  | \$24.95 | \$22.49 |
| 338669   | 11-03-0043     | Extraction  | 3.0"   | 14.95   | 13.49   |

Interconnects

## .156" (3.96mm) Headers, Housings and Crimp Terminals

- Wire-to-board applications
- End-to-end stackable styles
- Insulator: polyester, UL 94V-0
- Housing: nylon, UL 94V-0

\*Web Code: HHT



**molex** **AMP** JAMECO ValuePro

### Headers

\* Order in multiples of 10

#### Straight Friction Lock – Brass/Tin (Fig. 1)

| Part No. | Mfr.     | Product No. | Pos. | 1    | 10    | 100   |
|----------|----------|-------------|------|------|-------|-------|
| 879861   | Molex    | 26-60-4020  | 2    | .... | \$.15 | \$.12 |
| 231546   | AMP      | 640445-2    | 2    | .... | .09   | .07   |
| 879887   | Molex    | 26-60-4030  | 3    | .... | .15   | .12   |
| 231554   | AMP      | 640445-3    | 3    | .... | .09   | .07   |
| 231562   | AMP      | 640445-4    | 4    | .... | .15   | .12   |
| 104792   | ValuePro | LMH4        | 4    | .... | .15   | .12   |
| 879941   | Molex    | 26-60-4060  | 6    | .... | .29   | .25   |
| 104846   | ValuePro | LMH10       | 10   | .... | .15   | .12   |

#### Right Angle Friction Lock – Copper/Tin (Fig. 2)

| Part No. | Mfr. | Mfr. Part No. | Pos. | 1     | 10    | 100   |
|----------|------|---------------|------|-------|-------|-------|
| 232400   | AMP  | 640389-6      | 6    | \$.59 | \$.55 | \$.49 |

### Crimp Terminals

- Plating: A: brass/tin;  
B: phosphor bronze/tin

Order in multiples of 10

| Part No. | Mfr.     | Product No. | Plating | AWG   | 10    | 100   |
|----------|----------|-------------|---------|-------|-------|-------|
| 736481   | Molex    | 08-50-0106  | A       | 18-20 | \$.06 | \$.05 |
| 462774   | Molex    | 08-50-0165  | A       | 18-20 | ....  | .08   |
| 736544   | Molex    | 08-50-0189  | A       | 18-20 | ....  | .06   |
| 736552   | Molex    | 08-52-0071  | B       | 18-20 | ....  | .05   |
| 736561   | Molex    | 08-52-0072  | B       | 18-20 | ....  | .06   |
| 736587   | Molex    | 08-52-0113  | A       | 18-20 | ....  | .06   |
| 248866   | AMP      | 640706-1    | A       | 18-24 | ....  | .25   |
| 248874   | AMP      | 640706-2    | A       | 18-24 | ....  | .19   |
| 248882   | AMP      | 640707-1    | A       | 18-24 | ....  | .15   |
| 248903   | AMP      | 770522-1    | B       | 18-24 | ....  | .25   |
| 78319    | ValuePro | JS-5001-T   | A       | 18-24 | ....  | .05   |

†Trifurcon \*Cat ear

### Housings

#### With Locking Ramp (Fig. 3)

\* Order in multiples of 10

| Part No. | Mfr.     | Product No. | Pos. | 1    | 10    | 100   |
|----------|----------|-------------|------|------|-------|-------|
| 236144   | AMP      | 640250-2    | 2    | .... | \$.09 | \$.08 |
| 236152   | AMP      | 640250-3    | 3    | .... | .09   | .07   |
| 463435   | Molex    | 09-50-3031  | 3    | .... | .15   | .12   |
| 104433   | ValuePro | 7900F-3     | 3    | .... | .09   | .08   |
| 463443   | Molex    | 09-50-3041  | 4    | .... | .15   | .12   |
| 236161   | AMP      | 640250-4    | 4    | .... | .15   | .12   |
| 104716   | ValuePro | 7900F-4     | 4    | .... | .12   | .09   |
| 104724   | ValuePro | 7900F-5     | 5    | .... | .07   | .05   |
| 104732   | ValuePro | 7900F-6     | 6    | .... | .15   | .12   |
| 463460   | Molex    | 09-50-3061  | 6    | .... | .12   | .09   |
| 236187   | AMP      | 640250-6    | 6    | .... | .15   | .12   |
| 104766   | ValuePro | 7900F-10    | 10   | .... | .09   | .07   |
| 463523   | Molex    | 09-50-3121  | 12   | .... | .35   | .29   |

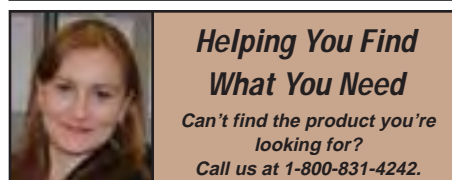
# Use with crimp pin 78319, below left Blue P/N = Limited Qty.

#### With Locking Ramp & Polarizing Tabs (Fig. 4)

| Part No. | Mfr. | Mfr. Part No. | Pos. | 10   | 100   |
|----------|------|---------------|------|------|-------|
| 236321   | AMP  | 770849-2      | 2    | .... | \$.12 |
| 236339   | AMP  | 770849-3      | 3    | .... | .15   |

\*Connector Tools — Enter Web Code VBV

\*More Housings Online — Enter Web Code CRH



### Receptacles

**molex**

JAMECO ValuePro

#### Single Row (Fig. 1)

\* Order in multiples of 10

| Part No. | Mfr.     | Cross Ref. No. | Pos. | 1    | 10    | 100   |
|----------|----------|----------------|------|------|-------|-------|
| 364584   | ValuePro | 39-01-4030     | 3    | .... | \$.09 | \$.07 |

#### Double Row (Fig. 2)

\* Order in multiples of 10

| Part No. | Mfr.     | Product No. | Pos. | 1    | 10    | 100   |
|----------|----------|-------------|------|------|-------|-------|
| 364736   | ValuePro | 39-01-2020  | 2    | .... | \$.09 | \$.08 |
| 303562   | Molex    | 39-01-2020  | 2    | .... | .35   | .25   |
| 364744   | ValuePro | 39-01-2040  | 4    | .... | .07   | .05   |
| 303571   | Molex    | 39-01-2040  | 4    | .... | .19   | .15   |
| 364752   | ValuePro | 39-01-2060  | 6    | .... | .09   | .08   |
| 303589   | Molex    | 39-01-2060  | 6    | .... | .19   | .15   |
| 364761   | ValuePro | 39-01-2080  | 8    | .... | .15   | .12   |
| 364779   | ValuePro | 39-01-2100  | 10   | .... | .09   | .07   |
| 364787   | ValuePro | 39-01-2120  | 12   | .... | .12   | .09   |
| 303618   | Molex    | 39-01-2120  | 12   | .... | .19   | .17   |
| 364795   | ValuePro | 39-01-2140  | 14   | .... | .39   | .29   |
| 303642   | Molex    | 39-01-2180  | 18   | .... | .29   | .19   |
| 364824   | ValuePro | 39-01-2200  | 20   | .... | .15   | .12   |
| 364832   | ValuePro | 39-01-2220  | 22   | .... | .15   | .12   |
| 303669   | Molex    | 39-01-2220  | 22   | .... | .59   | .49   |
| 364841   | ValuePro | 39-01-2240  | 24   | .... | .15   | .12   |
| 303677   | Molex    | 39-01-2240  | 24   | .... | .95   | .75   |

\* Not for use with strain relief

### Plugs

#### Single Row, Panel Mount with Ears (Fig. 3)

\* Order in multiples of 10

| Part No. | Mfr.     | Product No. | Pos. | 1    | 10    | 100   |
|----------|----------|-------------|------|------|-------|-------|
| 364613   | ValuePro | 39-01-4032  | 3    | .... | \$.12 | \$.09 |
| 364621   | ValuePro | 39-01-4052  | 5    | .... | .12   | .09   |
| 303829   | Molex    | 39-01-4052  | 5    | .... | .19   | .15   |

Continued on next page

\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

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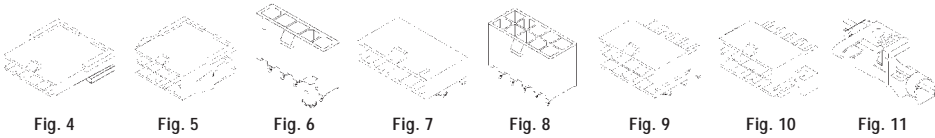
molex

JAMECO ValuePro

## .165" (4.19mm) Mini-Fit Jr.™ Type Connectors (Continued)

★ Web Code: MTC

\* Order in multiples of 10



### Plugs

\* Order in multiples of 10

#### Single Row, Free Hanging (Fig. 4)

| Part No. | Mfr.     | Cross Ref. No. | Pos. | 1   | 10  | 100 |
|----------|----------|----------------|------|-----|-----|-----|
| 364630   | ValuePro | 39-01-4036     | 3    | ... | ... | ... |
| 364656   | ValuePro | 39-01-4056     | 5    | ... | ... | ... |

#### Double Row, Panel Mount w/ Ears (Fig. 5)

| Part No. | Mfr.     | Product No. | Pos. | 1   | 10  | 100 |
|----------|----------|-------------|------|-----|-----|-----|
| 364859   | ValuePro | 39-01-2021  | 2    | ... | ... | ... |
| 303685   | Molex    | 39-01-2021  | 2    | ... | ... | ... |
| 364867   | ValuePro | 39-01-2041  | 4    | ... | ... | ... |
| 303693   | Molex    | 39-01-2041  | 4    | ... | ... | ... |
| 364875   | ValuePro | 39-01-2061  | 6    | ... | ... | ... |
| 303706   | Molex    | 39-01-2061  | 6    | ... | ... | ... |
| 364891   | ValuePro | 39-01-2101  | 10   | ... | ... | ... |
| 303722   | Molex    | 39-01-2101  | 10   | ... | ... | ... |
| 364904   | ValuePro | 39-01-2121  | 12   | ... | ... | ... |
| 303731   | Molex    | 39-01-2121  | 12   | ... | ... | ... |
| 364912   | ValuePro | 39-01-2141  | 14   | ... | ... | ... |
| 303749   | Molex    | 39-01-2141  | 14   | ... | ... | ... |
| 364921   | ValuePro | 39-01-2161  | 16   | ... | ... | ... |
| 303757   | Molex    | 39-01-2161  | 16   | ... | ... | ... |

Ⓢ Blue Part No. = Limited Quantity Available

### Single Row Headers

\* Order in multiples of 10

#### Vertical w/ Pegs & Drain Holes – Tin (Fig. 6)

| Part No. | Mfr.     | Product No. | Pos. | 1   | 10  | 100 |
|----------|----------|-------------|------|-----|-----|-----|
| 364672   | ValuePro | 39-30-2035  | 3    | ... | ... | ... |
| 304573   | Molex    | 39-30-2035  | 3    | ... | ... | ... |
| 364681   | ValuePro | 39-30-2045  | 4    | ... | ... | ... |
| 364699   | ValuePro | 39-30-2056  | 5    | ... | ... | ... |
| 304590   | Molex    | 39-30-2056  | 5    | ... | ... | ... |

#### Right Angle w/ Pegs – Tin (Fig. 7)

| Part No. | Mfr.     | Product No. | Pos. | 1   | 10  | 100 |
|----------|----------|-------------|------|-----|-----|-----|
| 364701   | ValuePro | 39-30-3035  | 3    | ... | ... | ... |
| 304602   | Molex    | 39-30-3035  | 3    | ... | ... | ... |
| 364710   | ValuePro | 39-30-3045  | 4    | ... | ... | ... |
| 304611   | Molex    | 39-30-3045  | 4    | ... | ... | ... |
| 364728   | ValuePro | 39-30-3055  | 5    | ... | ... | ... |

### Double Row Headers

\* Order in multiples of 10

#### Vertical w/o Pegs, w/o Drain Holes – Tin (Fig. 8)

| Part No. | Mfr.     | Product No. | Pos. | 1   | 10  | 100 |
|----------|----------|-------------|------|-----|-----|-----|
| 364939   | ValuePro | 39-28-1023  | 2    | ... | ... | ... |
| 303845   | Molex    | 39-28-1023  | 2    | ... | ... | ... |
| 364947   | ValuePro | 39-28-1043  | 4    | ... | ... | ... |
| 364955   | ValuePro | 39-28-1063  | 6    | ... | ... | ... |
| 364963   | ValuePro | 39-28-1083  | 8    | ... | ... | ... |
| 364980   | ValuePro | 39-28-1123  | 12   | ... | ... | ... |
| 364998   | ValuePro | 39-28-1143  | 14   | ... | ... | ... |
| 303900   | Molex    | 39-28-1143  | 14   | ... | ... | ... |
| 365000   | ValuePro | 39-28-1163  | 16   | ... | ... | ... |
| 365018   | ValuePro | 39-28-1183  | 18   | ... | ... | ... |
| 303925   | Molex    | 39-28-1183  | 18   | ... | ... | ... |
| 303941   | Molex    | 39-28-1223  | 22   | ... | ... | ... |
| 365042   | ValuePro | 39-28-1243  | 24   | ... | ... | ... |

Ⓢ Blue Part No. = Limited Quantity Available

### Double Row Headers (Continued)

#### Vertical w/o Pegs, w/o Drain Holes – 30μ" Gold (Fig. 8)

| Part No. | Mfr.     | Product No. | Pos. | 1   | 10  | 100 |
|----------|----------|-------------|------|-----|-----|-----|
| 365051   | ValuePro | 39-29-0023  | 2    | ... | ... | ... |
| 365069   | ValuePro | 39-29-0043  | 4    | ... | ... | ... |
| 303976   | Molex    | 39-29-0043  | 4    | ... | ... | ... |
| 365077   | ValuePro | 39-29-0063  | 6    | ... | ... | ... |
| 365085   | ValuePro | 39-29-0083  | 8    | ... | ... | ... |
| 365093   | ValuePro | 39-29-0103  | 10   | ... | ... | ... |
| 304004   | Molex    | 39-29-0103  | 10   | ... | ... | ... |
| 365106   | ValuePro | 39-29-0123  | 12   | ... | ... | ... |
| 304012   | Molex    | 39-29-0123  | 12   | ... | ... | ... |
| 365114   | ValuePro | 39-29-0143  | 14   | ... | ... | ... |
| 304021   | Molex    | 39-29-0143  | 14   | ... | ... | ... |
| 365122   | ValuePro | 39-29-0163  | 16   | ... | ... | ... |
| 304039   | Molex    | 39-29-0163  | 16   | ... | ... | ... |
| 365131   | ValuePro | 39-29-0183  | 18   | ... | ... | ... |
| 304047   | Molex    | 39-29-0183  | 18   | ... | ... | ... |
| 365149   | ValuePro | 39-29-0203  | 20   | ... | ... | ... |
| 304055   | Molex    | 39-29-0203  | 20   | ... | ... | ... |
| 365157   | ValuePro | 39-29-0223  | 22   | ... | ... | ... |
| 304063   | Molex    | 39-29-0223  | 22   | ... | ... | ... |
| 304071   | Molex    | 39-29-0243  | 24   | ... | ... | ... |

Ⓢ Blue Part No. = Limited Quantity Available

#### Right Angle w/ Pegs – Tin (Fig. 9)

| Part No. | Mfr.     | Product No. | Pos. | 1   | 10  | 100 |
|----------|----------|-------------|------|-----|-----|-----|
| 365173   | ValuePro | 39-30-1020  | 2    | ... | ... | ... |
| 365181   | ValuePro | 39-30-1040  | 4    | ... | ... | ... |
| 304098   | Molex    | 39-30-1040  | 4    | ... | ... | ... |
| 365190   | ValuePro | 39-30-1060  | 6    | ... | ... | ... |
| 365202   | ValuePro | 39-30-1080  | 8    | ... | ... | ... |
| 304119   | Molex    | 39-30-1080  | 8    | ... | ... | ... |
| 365211   | ValuePro | 39-30-1100  | 10   | ... | ... | ... |
| 304127   | Molex    | 39-30-1100  | 10   | ... | ... | ... |
| 365229   | ValuePro | 39-30-1120  | 12   | ... | ... | ... |
| 304135   | Molex    | 39-30-1120  | 12   | ... | ... | ... |
| 365237   | ValuePro | 39-30-1140  | 14   | ... | ... | ... |
| 304143   | Molex    | 39-30-1140  | 14   | ... | ... | ... |
| 365245   | ValuePro | 39-30-1160  | 16   | ... | ... | ... |
| 365253   | ValuePro | 39-30-1180  | 18   | ... | ... | ... |
| 304160   | Molex    | 39-30-1180  | 18   | ... | ... | ... |
| 365261   | ValuePro | 39-30-1200  | 20   | ... | ... | ... |
| 365270   | ValuePro | 39-30-1220  | 22   | ... | ... | ... |
| 304194   | Molex    | 39-30-1240  | 24   | ... | ... | ... |

#### Right Angle w/ Pegs – 30μ" Gold (Fig. 9)

| Part No. | Mfr.     | Product No. | Pos. | 1   | 10  | 100 |
|----------|----------|-------------|------|-----|-----|-----|
| 365325   | ValuePro | 39-30-1021  | 2    | ... | ... | ... |
| 304207   | Molex    | 39-30-1021  | 2    | ... | ... | ... |
| 365333   | ValuePro | 39-30-1041  | 4    | ... | ... | ... |
| 304223   | Molex    | 39-30-1041  | 4    | ... | ... | ... |
| 365350   | ValuePro | 39-30-1081  | 8    | ... | ... | ... |
| 304231   | Molex    | 39-30-1081  | 8    | ... | ... | ... |
| 365376   | ValuePro | 39-30-1121  | 12   | ... | ... | ... |
| 304258   | Molex    | 39-30-1121  | 12   | ... | ... | ... |
| 365384   | ValuePro | 39-30-1141  | 14   | ... | ... | ... |
| 304266   | Molex    | 39-30-1141  | 14   | ... | ... | ... |
| 304274   | Molex    | 39-30-1161  | 16   | ... | ... | ... |

#### Right Angle w/ Pegs – 30μ" Gold (Fig. 9) (Cont.)

| Part No. | Mfr.     | Product No. | Pos. | 1   | 10  | 100 |
|----------|----------|-------------|------|-----|-----|-----|
| 365392   | ValuePro | 39-30-1161  | 16   | ... | ... | ... |
| 365405   | ValuePro | 39-30-1181  | 18   | ... | ... | ... |
| 304282   | Molex    | 39-30-1181  | 18   | ... | ... | ... |
| 304291   | Molex    | 39-30-1201  | 20   | ... | ... | ... |
| 365421   | ValuePro | 39-30-1221  | 22   | ... | ... | ... |
| 304303   | Molex    | 39-30-1221  | 22   | ... | ... | ... |
| 365430   | ValuePro | 39-30-1241  | 24   | ... | ... | ... |
| 304311   | Molex    | 39-30-1241  | 24   | ... | ... | ... |

#### Right Angle w/ Flange – Tin (Fig. 10)

| Part No. | Mfr.     | Product No. | Pos. | 1   | 10  | 100 |
|----------|----------|-------------|------|-----|-----|-----|
| 365448   | ValuePro | 39-29-1028  | 2    | ... | ... | ... |
| 304320   | Molex    | 39-29-1028  | 2    | ... | ... | ... |
| 365456   | ValuePro | 39-29-1048  | 4    | ... | ... | ... |
| 304338   | Molex    | 39-29-1048  | 4    | ... | ... | ... |
| 304346   | Molex    | 39-29-1068  | 6    | ... | ... | ... |
| 365472   | ValuePro | 39-29-1088  | 8    | ... | ... | ... |
| 304354   | Molex    | 39-29-1088  | 8    | ... | ... | ... |
| 365481   | ValuePro | 39-29-1108  | 10   | ... | ... | ... |
| 365499   | ValuePro | 39-29-1128  | 12   | ... | ... | ... |
| 304371   | Molex    | 39-29-1128  | 12   | ... | ... | ... |
| 365501   | ValuePro | 39-29-1148  | 14   | ... | ... | ... |
| 304389   | Molex    | 39-29-1148  | 14   | ... | ... | ... |
| 365510   | ValuePro | 39-29-1168  | 16   | ... | ... | ... |
| 304397   | Molex    | 39-29-1168  | 16   | ... | ... | ... |
| 365528   | ValuePro | 39-29-1188  | 18   | ... | ... | ... |
| 304400   | Molex    | 39-29-1188  | 18   | ... | ... | ... |
| 365536   | ValuePro | 39-29-1208  | 20   | ... | ... | ... |
| 304418   | Molex    | 39-29-1208  | 20   | ... | ... | ... |
| 365544   | ValuePro | 39-29-1228  | 22   | ... | ... | ... |
| 304426   | Molex    | 39-29-1228  | 22   | ... | ... | ... |
| 365552   | ValuePro | 39-29-1248  | 24   | ... | ... | ... |
| 304434   | Molex    | 39-29-1248  | 24   | ... | ... | ... |

#### Right Angle w/ Flange – 30μ" Gold (Fig. 10)

| Part No. | Mfr.     | Product No. | Pos. | 1   | 10  | 100 |
|----------|----------|-------------|------|-----|-----|-----|
| 365561   | ValuePro | 39-39-5023  | 2    | ... | ... | ... |
| 304442   | Molex    | 39-39-5023  | 2    | ... | ... | ... |
| 365579   | ValuePro | 39-39-5043  | 4    | ... | ... | ... |
| 365587   | ValuePro | 39-39-5063  | 6    | ... | ... | ... |
| 304469   | Molex    | 39-39-5063  | 6    | ... | ... | ... |
| 365595   | ValuePro | 39-39-5083  | 8    | ... | ... | ... |
| 304477   | Molex    | 39-39-5083  | 8    | ... | ... | ... |
| 365608   | ValuePro | 39-39-5103  | 10   | ... | ... | ... |
| 365616   | ValuePro | 39-39-5123  | 12   | ... | ... | ... |
| 304493   | Molex    | 39-39-5123  | 12   | ... | ... | ... |
| 365632   | ValuePro | 39-39-5163  | 16   | ... | ... | ... |
| 365641   | ValuePro | 39-39-5183  | 18   | ... | ... | ... |
| 304522   | Molex    | 39-39-5183  | 18   | ... | ... | ... |
| 365659   | ValuePro | 39-39-5203  | 20   | ... | ... | ... |
| 304531   | Molex    | 39-39-5203  | 20   | ... | ... | ... |
| 365667   | ValuePro | 39-39-5223  | 22   | ... | ... | ... |
| 304549   | Molex    | 39-39-5223  | 22   | ... | ... | ... |
| 365675   | ValuePro | 39-39-5243  | 24   | ... | ... | ... |
| 304557   | Molex    | 39-39-5243  | 24   | ... | ... | ... |

### Strain Reliefs (Fig. 11)

| Part No. | Mfr.  | Mfr. Part No. | Pos. | 1   | 10  | 100 |
|----------|-------|---------------|------|-----|-----|-----|
| 304637   | Molex | 15-04-0296    | 6    | ... | ... | ... |
| 304645   | Molex | 15-04-0343    | 8    | ... | ... | ... |

Crimp Terminals on next page

Ⓢ RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 197.

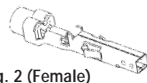


## .165" (4.19mm) Mini-Fit Jr.™ molex® Type Terminals

\*Web Code: CBX



\*Fig. 1 (Male)



\*Fig. 2 (Female)

- \*Type: A: Tin over nickel over brass  
B: 15µ" gold over nickel over brass  
C: 30µ" gold over nickel over brass  
D: Tin over nickel over phosphor bronze  
E: Brass or copper (post plated tin over nickel)  
F: 15µ" gold over nickel over phosphor bronze  
G: 30µ" gold over nickel over phosphor bronze  
H: Brass (post plated tin over nickel)  
I: Phosphor bronze (pre-plated gold over nickel)

| 22-28 AWG |          | * Order in multiples of 10 |          |        |        |
|-----------|----------|----------------------------|----------|--------|--------|
| Part No.  | Mfr.     | Product No.                | Type*    | 1      | 10 100 |
| 304872    | Molex    | 39-00-0047                 | 2A ... * | \$ .14 | \$ .10 |
| 365798    | ValuePro | 39-00-0088                 | 1C ... * | .19    | .15    |
| 401841    | ValuePro | 39-00-0098                 | 1B ... * | .09    | .07    |
| 401752    | ValuePro | 39-00-0126                 | 2D ... * | .09    | .08    |
| 365915    | ValuePro | 39-00-0166                 | 2C ... * | .19    | .15    |
| 401728    | ValuePro | 39-00-0172                 | 2B ... * | .15    | .12    |
| 304899    | Molex    | 39-00-0184                 | 2I ... * | .39    | .29    |
| 365907    | ValuePro | 39-00-0184                 | 2G ... * | .12    | .09    |
| 401787    | ValuePro | 39-00-0197                 | 2F ... * | .09    | .07    |
| 401699    | ValuePro | 39-00-0210                 | 2A ... * | .09    | .08    |

Blue Part No. = Limited Quantity Available

| 18-24 AWG |          | * Order in multiples of 10 |          |        |        |
|-----------|----------|----------------------------|----------|--------|--------|
| Part No.  | Mfr.     | Product No.                | Type*    | 1      | 10 100 |
| 304733    | Molex    | 39-00-0039                 | 2A ... * | \$ .07 | \$ .06 |
| 304725    | Molex    | 39-00-0041                 | 1A ... * | .09    | .08    |
| 401859    | ValuePro | 39-00-0076                 | 1B ... * | .39    | .29    |
| 401824    | ValuePro | 39-00-0121                 | 1A ... * | .09    | .08    |
| 365886    | ValuePro | 39-00-0164                 | 2C ... * | .19    | .15    |
| 401736    | ValuePro | 39-00-0170                 | 2B ... * | .39    | .29    |
| 365851    | ValuePro | 39-00-0182                 | 2G ... * | .19    | .15    |
| 401795    | ValuePro | 39-00-0195                 | 2F ... * | .15    | .12    |
| 401701    | ValuePro | 39-00-0208                 | 2A ... * | .09    | .07    |
| 304821    | Molex    | 30490-1012                 | 1I ... * | .65    | .59    |
| 304792    | Molex    | 30490-2012                 | 1I ... * | .25    | .22    |
| 884248    | Molex    | 44476-1111                 | 2E ... * | .05    | .04    |
| 304776    | Molex    | 44476-1112                 | 2I ... * | .19    | .15    |
| 304784    | Molex    | 44485-1212                 | 2I ... * | .49    | .39    |

• Sold in 4000 piece reel

| Part No. | Mfr.  | Mfr. Part No. | Type* | 4000   |
|----------|-------|---------------|-------|--------|
| 307993   | Molex | 39-00-0038    | 2A    | \$ .03 |
| 307985   | Molex | 39-00-0040    | 1A    | .03    |

| 16 AWG   |          | * Order in multiples of 10 |          |        |               |
|----------|----------|----------------------------|----------|--------|---------------|
| Part No. | Mfr.     | Product No.                | Type*    | 1      | 10 100        |
| 304709   | Molex    | 39-00-0096                 | 1H ... * | \$ .49 | \$ .45 \$ .35 |
| 365704   | ValuePro | 39-00-0096                 | 1C ... * | .12    | .09           |
| 401867   | ValuePro | 39-00-0099                 | 1B ... * | .09    | .07           |
| 401832   | ValuePro | 39-00-0125                 | 1A ... * | .09    | .08           |
| 365835   | ValuePro | 39-00-0168                 | 2C ... * | .35    | .29           |
| 401744   | ValuePro | 39-00-0174                 | 2B ... * | .15    | .12           |
| 365827   | ValuePro | 39-00-0186                 | 2G ... * | .12    | .09           |
| 401808   | ValuePro | 39-00-0199                 | 2F ... * | .09    | .07           |
| 401710   | ValuePro | 39-00-0212                 | 2A ... * | .06    | .05           |
| 401779   | ValuePro | 39-00-0218                 | 2D ... * | .05    | .04           |
| 304670   | Molex    | 44476-3112                 | 2H ... * | .19    | .15           |
| 304661   | Molex    | 44478-3112                 | 1E ... * | .19    | .15           |

Blue Part No. = Limited Quantity Available

## .165" (4.19mm) Mini-Fit BMI™ Plug

- Housing: UL94V-2 Nylon 6/6
- Operating temp: -40°C to +105°C
- Mates w/ 5557/42385/42474/43760 series receptacles
- Use 5558/44475/444778 series terminals
- Dual row with panel mount ears

| Part No. | Mfr. | Part No.   | Pos. | 1      | 10 100        |
|----------|------|------------|------|--------|---------------|
| 741386   |      | 15-06-0245 | 24   | \$ .79 | \$ .69 \$ .59 |

## .197" (5mm) Pitch SPOX™

- Voltage: 250V • With locking ramp
- Contact resistance: 10mΩ max.
- Insulation resis.: 1000MΩ min.
- Housing: nylon 6/6, UL 94V-2

| Housings |      | * Order in multiples of 10 |      |        |               |
|----------|------|----------------------------|------|--------|---------------|
| Part No. | Mfr. | Part No.                   | Pos. | 1      | 10 100        |
| 521560   |      | 10-63-3044                 | 4    | \$ .29 | \$ .25 \$ .22 |
| 521578   |      | 10-63-3054                 | 5    | .35    | .29 .25       |

## Vertical Headers with Friction Lock

| Part No. | Mfr. | Part No.   | Pos. | 1      | 10 100        |
|----------|------|------------|------|--------|---------------|
| 2099542  |      | 10-31-1028 | 2    | \$ .45 | \$ .39 \$ .35 |
| 519654   |      | 10-31-1058 | 5    | .79    | .69 .59       |

## Hand Tools for Mini-Fit Jr.™



- 304928: Crimp tool wire range from 14-24 AWG, 8.5"L
- 304936: Extraction tool, 3.5"L
- 308030: Cuts & strips 14-24 AWG, 8.3"L
- 227491: Cuts & strips 18-30 AWG, 8.3"L

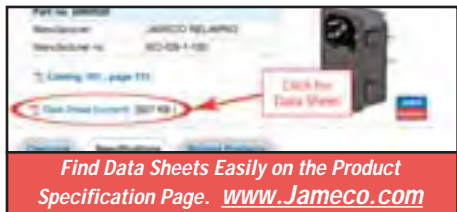
| Part No. | Mfr.      | Mfr. Part No. | 1       | 5       |
|----------|-----------|---------------|---------|---------|
| 304928   | Molex     | 63811-1000    | \$49.95 | \$44.95 |
| 304936   | Molex     | 11-03-0044    | 19.95   | 18.95   |
| 308030   | GC/Waldom | W-HT-1919     | 14.95   | 13.95   |
| 227491   | GC/Waldom | W-HT-1921     | 14.95   | 13.95   |

## .100" (2.54mm) Keyed Shrouded Headers & Connectors

- CD-ROM 4-Pin
- Low profile
- Voltage rating: 250VAC/DC
- Current rating: 3A AC/DC
- Insulation res.: 1000MΩ min.
- Pin material: tin-plated brass
- Connector material: PBT, 30% glass
- Header material: PBT + 30% glass
- Withstanding volt.: 1000VAC/1 min.
- Recommend crimp tool P/N 99443, pg 161

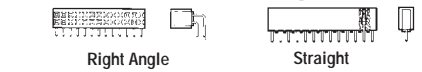
| Part No. |  | Description      | 1      | 10 100        |
|----------|--|------------------|--------|---------------|
| 152741   |  | Straight header  | \$ .49 | \$ .45 \$ .39 |
| 152726   |  | Rt. angle header | .59    | .55 .49       |
| 152734   |  | Single w/ latch  | .49    | .45 .39       |
| 181673   |  | Female pins      | *      | .05 .04       |

† P/N 152734 requires 4 pins (P/N 181673)



Find Data Sheets Easily on the Product Specification Page. [www.Jameco.com](http://www.Jameco.com)

## .100" (2.54mm) Female Header Receptacles



- Gold-plated contacts († tin-plated)

## Single Row Right Angle (Side Entry)

| Part No. | Mfr.     | Contacts | 1      | 10 100        |
|----------|----------|----------|--------|---------------|
| 2100321  | ValuePro | 8        | \$ .49 | \$ .45 \$ .35 |

## Double Row Right Angle (Side Entry)

|       |          |    |        |               |
|-------|----------|----|--------|---------------|
| 71159 | ValuePro | 20 | \$1.19 | \$1.05 \$ .85 |
|-------|----------|----|--------|---------------|

## Single Row Straight (Top Entry)

|        |          |    |        |               |
|--------|----------|----|--------|---------------|
| 70755  | ValuePro | 8  | \$ .45 | \$ .35 \$ .29 |
| 200783 | ValuePro | 12 | .55    | .45 .39       |
| 308592 | ValuePro | 16 | .65    | .55 .49       |
| 308567 | ValuePro | 20 | .75    | .69 .55       |

## Double Row Straight (Top Entry)

|        |          |     |        |               |
|--------|----------|-----|--------|---------------|
| 70721  | ValuePro | 16  | \$ .85 | \$ .75 \$ .65 |
| 70827  | ValuePro | 20  | .95    | .85 .75       |
| 105057 | ValuePro | 30  | 1.09   | .95 .85       |
| 163862 | ValuePro | 34† | .95    | .85 .75       |
| 111705 | ValuePro | 40  | 1.29   | 1.15 .95      |

## .100" (2.54mm) IDC Ribbon Connectors

- Center and Military Polarized Receptacles
- Accepts 28-26AWG solid or stranded cables
- Contact current rating: 1A continuous
- Housing, cover: 94V-0 rated thermoplastic, black
- Contacts: phosphor bronze, duplex plating

- Contact Plating:
- A: 30µ" gold, 50µ" min. tin
- B: 15µ" gold, 100µ"-200µ" tin
- C: 15µ" gold, 100-200µ" tin lead, all over 50µ" min. nickel
- D: 30µ" gold, 100-200µ" bright tin lead, all over 50µ" nickel
- E: 15µ" gold, 50µ" min. tin, all over 50µ" nickel



| Part No. | Mfr. | Mfr. Part No. | Pos. | Plating | 1      | 10 100        |
|----------|------|---------------|------|---------|--------|---------------|
| 901642   | AMP  | 1658622-1     | 10   | A       | \$1.49 | \$1.35 \$1.19 |
| 525309   | AMP  | 746285-1      | 10   | C       | 1.19   | 1.05 .95      |
| 742215   | AMP  | 1658621-1     | 10   | B       | .95    | .85 .75       |
| 1578082  | 3M   | 89110-0101    | 10   | A       | 1.19   | 1.05 .95      |
| 525317   | AMP  | 746285-2      | 14   | C       | 1.39   | 1.25 .95      |
| 1578091  | 3M   | 89114-0101    | 14   | A       | .75    | .65 .55       |
| 525325   | AMP  | 746285-3      | 16   | C       | 1.45   | 1.29 1.05     |
| 1578111  | 3M   | 89116-0101    | 16   | A       | .95    | .85 .75       |
| 525333   | AMP  | 746285-4      | 20   | C       | 1.49   | 1.35 1.09     |
| 901482   | AMP  | 1658621-4     | 20   | B       | 1.59   | 1.45 1.25     |
| 525413   | AMP  | 746288-6      | 26   | D       | 1.49   | 1.35 1.19     |
| 525341   | AMP  | 746285-6      | 26   | C       | 1.49   | 1.35 1.19     |
| 1578171  | 3M   | 89126-0101    | 26   | A       | .95    | .85 .75       |
| 525350   | AMP  | 746285-8      | 34   | C       | 1.79   | 1.49 1.29     |
| 1578197  | 3M   | 89134-0101    | 34   | A       | .95    | .85 .75       |
| 525368   | AMP  | 746285-9      | 40   | C       | 1.95   | 1.75 1.55     |
| 525376   | AMP  | 1-746288-0    | 50   | D       | 2.85   | 2.55 2.29     |

Blue Part No. = Limited Quantity Available

## Strain Relief for NOVO Receptacles

| Part No. |  | Mfr. | Mfr. Part No. | Pos. | 10 100        |
|----------|--|------|---------------|------|---------------|
| 526045   |  | AMP  | 499252-5      | 10   | \$ .19 \$ .15 |

\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

## AMP .100" (2.54mm) AMPLATCH™ Ribbon Connectors

### Low-Profile Shrouded Headers with 0.150" End Dimension, Dual Row

- 0.120" solder tail
- 0.025" square posts
- Housing: black thermoplastic, UL94V-0 rated
- Contact: phosphor bronze



496085

#### Contact Plating:

- A: 30µ" gold in contact area, 100µ" ~ 200µ" tin/lead on solder tail, all over 50µ" nickel;  
 B: 30µ" gold on mating area, 100µ" min. tin on solder end, all over 50µ" nickel;  
 C: 15µ" gold in contact area, 100µ" ~ 200µ" tin/lead on solder tail, all over 50µ" nickel

\* Web Code: UCB

### Straight (no latch)

| Part No. | Mfr. P/N  | Pos. | Plating | 1     | 10    | 100   |
|----------|-----------|------|---------|-------|-------|-------|
| 496051   | 103309-1  | 10   | A       | \$.65 | \$.59 | \$.49 |
| 753571   | 5103309-2 | 14   | B       | 1.35  | 1.19  | 1.05  |
| 496085   | 103308-5  | 20   | C       | 1.09  | .99   | .89   |
| 496296   | 103308-6  | 26   | C       | 1.25  | 1.09  | .95   |
| 496114   | 103309-8  | 40   | C       | 1.65  | 1.49  | 1.35  |

### Right Angle (no latch)

| Part No. | Mfr. P/N | Pos. | Plating | 1     | 10    | 100   |
|----------|----------|------|---------|-------|-------|-------|
| 737740   | 103310-2 | 14   | C       | \$.85 | \$.75 | \$.65 |
| 737774   | 103310-6 | 26   | C       | 1.95  | 1.75  | 1.49  |

\* Latch DIP Plugs Online — Enter Web Code EAO

## JAMECO ValuePro .100" (2.54mm) Low Profile Male Shrouded Headers

### Straight Double Row

- Rating: 1A (max.) @ 250VDC
- Contact resistance: 15mΩ max.
- Contact: phosphor bronze, gold plated
- Features: UL recognized CSA certified; 0.025" square post mates with sockets on 0.100" x 0.100" grid
- Use with IDC socket connectors, right



68180

\* Web Code: JAH

| Part No. | Cross Ref. No. | Pos. | 1     | 10    | 100   |
|----------|----------------|------|-------|-------|-------|
| 67812    | 7110-10SG      | 10   | \$.49 | \$.45 | \$.39 |
| 2100304  | 7110-14SG      | 14   | .49   | .45   | .39   |
| 68180    | 7110-16SG      | 16   | .49   | .45   | .39   |
| 68292    | 7110-20SG      | 20   | .55   | .49   | .39   |
| 68372    | 7110-26SG      | 26   | .55   | .45   | .35   |
| 68583    | 7110-34SG      | 34   | .89   | .69   | .49   |
| 181105   | 7110-40SG      | 40   | 1.29  | .99   | .79   |
| 2100312  | 7110-50SG      | 50   | 1.49  | 1.15  | .89   |

\* .200" Drive Power Connectors & Crimp Terminals Available Online — Enter Web Code ABU

## H IDC Connector Crimping Tool

- Use for IDC socket connectors
- Crimping distance: 27.5mm to 6mm (with attachment)
- Size: 9.2"L x 3.0"W
- Weight: 1.1 lbs.



| Part No. | Mfr. Part No. | 1       | 10      | 25      |
|----------|---------------|---------|---------|---------|
| 73252    | HT214         | \$15.95 | \$14.39 | \$12.95 |

Have A Large Volume Order That Requires Special Pricing? Call us at 1-800-831-4242

## .100" (2.54mm) Straight Male Headers

### Double Row w/ Standard Latch

- 0.1" contact center
- Mount vertical
- Keying slot
- Use w/ IDC socket connectors, right below



\* Web Code: VAQ



71830

| Part No. | Mfr.     | Pins   | 1     | 10    | 100   |
|----------|----------|--------|-------|-------|-------|
| 117664   | ValuePro | 10-pin | \$.65 | \$.55 | \$.49 |
| 1928169  | On Shore | 16-pin | .49   | .39   | .29   |
| 71830    | ValuePro | 20-pin | .95   | .85   | .75   |
| 2076375  | CW Ind.  | 20-pin | .95   | .85   | .65   |
| 71933    | ValuePro | 26-pin | 1.29  | 1.15  | .95   |
| 1928177  | On Shore | 34-pin | .65   | .59   | .49   |
| 1928185  | On Shore | 34-pin | .65   | .59   | .55   |
| 72216    | ValuePro | 50-pin | 1.49  | 1.35  | 1.19  |

† Right angle

## JAMECO ValuePro .100" & 2mm IDC Socket Connectors JAMECO EXCLUSIVE

### Double Row

- Current rating: 1A
- Mates with 2 rows of .025" sq. or dia. posts on patterns of .100" centers (male headers, pg 74)
- Contact material: phosphor bronze w/ 1µ" gold flash on mating area, tin plated on termination area
- Industry standard IDC socket (plastic)
- Temp. rating: -55°C to +105°C
- Use crimping P/N 73252, below left



32564

\* Web Code: QAE

### Polarized

| Part No. | Cross Ref. No. | Contacts | 1     | 10    | 100   |
|----------|----------------|----------|-------|-------|-------|
| 32492    | 8000-10        | 10       | \$.29 | \$.25 | \$.19 |
| 153948   | 8000-14        | 14       | .35   | .29   | .25   |
| 119467   | 8000-16        | 16       | .39   | .35   | .29   |
| 32522    | 8000-20        | 20       | .45   | .39   | .35   |
| 32564    | 8000-26        | 26       | .49   | .45   | .39   |
| 32644    | 8000-34        | 34       | .55   | .49   | .45   |
| 32679    | 8000-40        | 40       | .59   | .55   | .49   |
| 100386   | 110-44         | 44 (2mm) | .29   | .25   | .19   |
| 32708    | 8000-50        | 50       | .65   | .59   | .55   |
| 32759    | 8000-60        | 60       | .89   | .79   | .69   |

### Non-Polarized

\* Order in multiples of 10

| Part No. | Cross Ref. No. | Contacts | 1     | 10    | 100   |
|----------|----------------|----------|-------|-------|-------|
| 138325   | 8000-20NE      | 20       | \$.19 | \$.15 | \$.11 |
| 138333   | 8000-26NE      | 26       | .35   | .29   | .25   |
| 138341   | 8000-34NE      | 34       | .39   | .35   | .29   |
| 138350   | 8000-40NE      | 40       | .45   | .39   | .35   |

\* Universal Connectors Online — Enter Web Code GAU

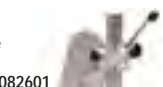
\* Four Wall Headers Online — Enter Web Code LDV

## PANAVISE

### Arbor Press, IDC Kit and Cable Cutter

- 2082601: 502 Arbor Press
  - Precision ¼ ton (227kg) pressure
  - 4 adjustable nylon gibs provide exceptional arm control
  - Base footprint: 3.7" x 7" with 4 counter sunk holes
  - 8" arm

2082601



#### 2082610: 506 IDC Kit

- For low volume mass termination (up to 64-pin conductor wire) of various IDC connectors on ribbon cables

2082610



## 3M .100" (2.54mm) IDC Wiremount Socket Connectors

### .100" x .100" for .050" Pitch Cables

- Insulation: glass filled polyester (PBT), gray, UL94V-0
- 100µ" nickel underplating & U-slot; 30µ" gold wiping area
- Copper alloy contacts
- Current rating: 1A
- Withstanding voltage: 1000V<sub>RMS</sub>
- Insulation resistance: 1MΩ @ 500VDC
- Accepts 26-28AWG solid or stranded wires
- Open end, center bump, military



\* Web Code: ADV

### 3000 Series With Strain Relief

| Part No. | Mfr. Part No. | Pos. | 1      | 10     | 100    |
|----------|---------------|------|--------|--------|--------|
| 1576407  | 3421-6620     | 20   | \$2.95 | \$2.69 | \$2.39 |

### 8000 Series With Strain Relief

- Contact: phosphor bronze, 30µ" nickel underplating
- Without center bump

| Part No. | Mfr. Part No. | Pos. | 1     | 10    | 100   |
|----------|---------------|------|-------|-------|-------|
| 1578074  | 89110-0001    | 10   | \$.65 | \$.59 | \$.49 |

## JAMECO ValuePro .100" IDC DIP Flat Cable Plugs

- Mates with standard 14, 16, 20, 24, 26, 28 & 40-pin DIP sockets with 0.1" spacing
- Uses 28 AWG flat ribbon cable, pg 60
- Plastic with gold-plated contacts
- Current rating: 1A



42674

\* Web Code: KEF

| Part No. | Cross Ref. | Width | Contacts | 1     | 10    | 100   |
|----------|------------|-------|----------|-------|-------|-------|
| 42658    | 8200-14    | 0.3"  | 14       | \$.45 | \$.39 | \$.35 |
| 42674    | 8200-16    | 0.3"  | 16       | .55   | .49   | .45   |
| 104097   | 8200-20    | 0.3"  | 20       | .65   | .55   | .49   |
| 42691    | 8200-24    | 0.6"  | 24       | .75   | .65   | .55   |
| 99670    | 8200-28    | 0.6"  | 28       | .85   | .75   | .65   |
| 42712    | 8200-40    | 0.6"  | 40       | .95   | .85   | .75   |

## JAMECO ValuePro .100" IDC Plug Connector Double Row

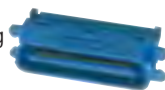
- Shrouded header without mounting ears
- Plastic
- Contact: gold-plated phosphor bronze
- Use with IDC socket for connectors above

JAMECO EXCLUSIVE

| Part No. | Cross Ref. | Contacts | 1      | 10     | 100    |
|----------|------------|----------|--------|--------|--------|
| 29217    | 8400-50    | 50       | \$1.49 | \$1.35 | \$1.09 |

## JAMECO ValuePro IDC Centronics Connector

- Contact material: gold plated phosphor bronze; plastic casing
- Current rating: 1 amp
- Temp. rating: -55°C to +105°C
- Use 73252 IDC crimping tool, below left



| Part No. | Description  | 1      | 10     | 100    |
|----------|--------------|--------|--------|--------|
| 13849    | 36-pin males | \$2.29 | \$1.95 | \$1.75 |



## JAMECO ValuePro .100" (2.54mm) Non-Polarized Connector Housings & Crimp Pins

- Mates with 0.025" square post on pattern of 0.100" centers (male headers, pg 74)
- Current rating: 1A • Housing material: plastic
- Pin material: brass/tin plated • 26-22 AWG
- Temperature rating: -55°C to +105°C
- Use crimping P/N 159266, pg 161

**Single Row** \* Order in multiples of 10

| Part No. | Cross Ref. No. | Contacts | 1     | 10    | 100   |
|----------|----------------|----------|-------|-------|-------|
| 100812   | SCH2           | 2        | ..... | ..... | ..... |
| 157383   | SCH3           | 3        | ..... | ..... | ..... |
| 100803   | SCH4           | 4        | ..... | ..... | ..... |
| 163686   | SCH5           | 5        | ..... | ..... | ..... |
| 103212   | SCH6           | 6        | ..... | ..... | ..... |
| 103203   | SCH8           | 8        | ..... | ..... | ..... |
| 103191   | SCH10          | 10       | ..... | ..... | ..... |
| 103182   | SCH20          | 20       | ..... | ..... | ..... |
| 103158   | SCH36          | 36       | ..... | ..... | ..... |

## Double Row

| Part No. | Cross Ref. No. | Contacts | 1     | 10    | 100   |
|----------|----------------|----------|-------|-------|-------|
| 103254   | DCH8           | 8        | ..... | ..... | ..... |
| 157421   | DCH10          | 10       | ..... | ..... | ..... |
| 157438   | DCH14          | 14       | ..... | ..... | ..... |
| 103238   | DCH16          | 16       | ..... | ..... | ..... |
| 103230   | DCH20          | 20       | ..... | ..... | ..... |
| 157462   | DCH40          | 40       | ..... | ..... | ..... |
| 157472   | DCH50          | 50       | ..... | ..... | ..... |

## Crimp Pins for Single/Double Row Housings

| Part No. | Cross Ref. No. | Contacts   | 10    | 100   | 500   |
|----------|----------------|------------|-------|-------|-------|
| 100766   | FCH1           | Female pin | ..... | ..... | ..... |
| 145358   | MCH1           | Male pin   | ..... | ..... | ..... |

## .100" MTE AMPMODU Pin Housings

- Single row
- Latched polarization
- Mating lock connector
- 0.100" center line
- Black thermoplastic, UL94V-0

| Part No. | Mfr. Part No. | Pos. | 1     | 10    | 100   |
|----------|---------------|------|-------|-------|-------|
| 496392   | 103653-1      | 2    | ..... | ..... | ..... |
| 496405   | 103653-2      | 3    | ..... | ..... | ..... |
| 496413   | 103653-3      | 4    | ..... | ..... | ..... |

## PC Card-Edge Connectors

- Fits all PC boards
- 0.054" to 0.070" thick

## Solder Eyelet 0.140" Spacing Between Rows

| Part No. | Mfr.     | Positions | 1     | 10    | 100   |
|----------|----------|-----------|-------|-------|-------|
| 422983   | Cinch    | 10/20     | ..... | ..... | ..... |
| 39117    | ValuePro | 22/44     | ..... | ..... | ..... |

## Solder Tail 0.200" Spacing Between Rows

| Part No. | Mfr.     | Positions     | 1     | 10    | 100   |
|----------|----------|---------------|-------|-------|-------|
| 40694    | ValuePro | 31/62 (PC/AT) | ..... | ..... | ..... |
| 194509   | Various  | 50/100        | ..... | ..... | ..... |

\* Card Edge Connectors Online — Enter Web Code YEE

## AMPMODU™ .100" (2.54mm) Receptacle Housing & Contacts

- Single Row, Non-Polarized, Crimp Snap-In (MOD IV)
- No PC with UMN
- Black thermoplastic, flame retardant

| Part No. | Mfr. Part No. | Pos. | Width  | 1     | 10    | 100   |
|----------|---------------|------|--------|-------|-------|-------|
| 526871   | 87499-3       | 2    | 0.205" | ..... | ..... | ..... |
| 526889   | 87499-5       | 3    | 0.305" | ..... | ..... | ..... |
| 526897   | 87499-7       | 4    | 0.405" | ..... | ..... | ..... |

## Standard Pressure Receptacle Contacts (MOD IV)

- Material: phosphor bronze
- No PC with UMN
- Plating: 527419: 15µ" gold in contact area, 100µ" – 200µ" bright tin lead, all over 50µ" nickel
- 527486: Pre-plated 50µ" – 150µ" bright tin

| Part No. | Mfr. Part No. | 1     | 10    | 100   |
|----------|---------------|-------|-------|-------|
| 527419   | 87523-6       | ..... | ..... | ..... |
| 527486   | 1-87523-6     | ..... | ..... | ..... |

## AAIES DIP Headers

### Series 600 Headers w/ Coined Contacts

- Standard cover/body material is red UL 94-HB glass filled nylon
- High temperature cover/body material is black UL 94V-0 4/6 nylon
- Contact plating: 100µ" min., tin
- Contact rating: 2A
- Operating temp.: 221°F (105°C) max.
- Fork contacts: accept up to .025" (.64mm) dia. leads

| Part No. | Mfr. Part No. | Pos. | Width* | 1     | 10    | 100   |
|----------|---------------|------|--------|-------|-------|-------|
| 291120   | 08-600-10     | 8    | 0.3"   | ..... | ..... | ..... |
| 291312   | 14-600-10     | 14   | 0.3"   | ..... | ..... | ..... |
| 291574   | 16-600-10     | 16   | 0.3"   | ..... | ..... | ..... |
| 291996   | 24-600-10     | 24   | 0.6"   | ..... | ..... | ..... |

\* Center to center pin width

## CA .100" DIP Header Plugs

- Gold-plated leads
- Header plugs: keyed corner to indicate pin 1
- U-shaped pin termination for easy component attachment
- Lead length: 0.188" • 0.1" spacing between leads

| Part No. | Mfr. Part No. | Width | Pins | 1     | 10    | 100   |
|----------|---------------|-------|------|-------|-------|-------|
| 104337   | 08P-2         | 0.3"  | 8    | ..... | ..... | ..... |
| 37130    | 14P-2         | 0.3"  | 14   | ..... | ..... | ..... |
| 37331    | 16P-2         | 0.3"  | 16   | ..... | ..... | ..... |

## JAMECO ValuePro PCB Centronics Connector

- Solder-type contacts
- Space between rows: 0.164"
- Space between pins: 0.1"
- Metal body
- PC mount

| Part No. | Description            | 1     | 10    | 100   |
|----------|------------------------|-------|-------|-------|
| 72151    | 36-contact F, rt angle | ..... | ..... | ..... |

\* PCB Connectors Online — Enter Web Code EEN

\* Card Extenders Online — Enter Web Code PAA

\* Keyboard Adapters Online — Enter Web Code RAV

## CINCH Jones Plugs and Sockets

### Series 300 Multiple-Density Solder-Eyelet Connectors

- Insulation material: molded monoblock, black phenolic
- Contact material: plug – brass; socket – phosphor bronze
- Contact plating: cadmium
- Current rating: 10 amps
- Operating voltage: 250VAC max.
- Contact resistance: 16mΩ max.
- Hood material: UL 94V-0 rated thermoplastic

### Sockets with Hood and 180° Clamp

| Part No. | Mfr. Part No. | Contacts | 1     | 10    |
|----------|---------------|----------|-------|-------|
| 248807   | S-302H-CCT    | 2        | ..... | ..... |
| 248823   | S-304H-CCT    | 4        | ..... | ..... |
| 248831   | S-306H-CCT    | 6        | ..... | ..... |

### Plugs with Hood and 180° Clamp

| Part No. | Mfr. Part No. | Contacts | 1     | 10    |
|----------|---------------|----------|-------|-------|
| 248760   | P-302H-CCT    | 2        | ..... | ..... |
| 248786   | P-304H-CCT    | 4        | ..... | ..... |
| 248794   | P-306H-CCT    | 6        | ..... | ..... |
| 445982   | P-315-CCT     | 15       | ..... | ..... |

## Series 2400 Multiple-Density Solder-Eyelet Connector

- Current rating: 15A
- Current resistance: 1mΩ max.
- Operating voltage: 250VAC
- Plug prongs are 0.250"W x 0.55"Th.
- For use in cable-to-cable and cable-to-panel applications
- Socket contacts have solder eyelets with 0.093" dia.
- Insulation material: molded monoblock, general purpose phenolic, black
- Contact plating: cadmium
- Contact material: plug-brass; socket-phosphor bronze
- Hood material: formed metal with dielectric liner

### Plug with Hood and 180° Clamp

| Part No. | Mfr. Part No. | Contacts | 1     | 10    | 100   |
|----------|---------------|----------|-------|-------|-------|
| 428197   | P-2408H-CCT   | 8        | ..... | ..... | ..... |

### Socket with Hood and 180° Clamp

| Part No. | Mfr. Part No. | Contacts | 1     | 10    | 100   |
|----------|---------------|----------|-------|-------|-------|
| 444699   | S-2408H-CCT   | 8        | ..... | ..... | ..... |

## FT Connector Assembly SFP Small Form-Factor Pluggable

- Right angle 0.8mm pitch
- Contact: phosphor bronze
- Housing: high-temperature LCP UL94V-0 rated, black
- Plating: 0.38µ" min. gold in contact area, 13µ" min. gold in solder area, 38µ" min. nickel underplate

| Part No. | Mfr. Part No. | Positions | 1     | 10    | 100   |
|----------|---------------|-----------|-------|-------|-------|
| 741010   | 1367073-1     | 20        | ..... | ..... | ..... |

## JAMECO ValuePro Mini DIN & DIN Panel Mount Female Sockets

- With solder lugs
- Metal body

\* Web Code: FAB

| Part No. | Cross Ref. No. | Description    | 1     | 10    | 100   |
|----------|----------------|----------------|-------|-------|-------|
| 2076762  | MDPM5          | 5-pin mini DIN | ..... | ..... | ..... |
| 15852    | MDPM6          | 6-pin mini DIN | ..... | ..... | ..... |
| 2076771  | MDPM8          | 8-pin mini DIN | ..... | ..... | ..... |
| 15844    | DINJ5          | 5-pin DIN      | ..... | ..... | ..... |
| 15852    | DINJ6          | 6-pin DIN      | ..... | ..... | ..... |
| 15861    | DINJ8          | 8-pin DIN      | ..... | ..... | ..... |



# Sockets, Receptacles, Plugs & Connectors

3 LEVELS OF SAVINGS  
NAME BRANDS HOUSE BRANDS FACTORY OVERRUN

## Mini-DIN & DIN PC Mount Female Sockets



• Set back: 0.5"

\* Web Code: DMS

119475: Plastic/metal body 29399: Plastic body

### Unshielded (DIN) – Right Angle

| Part No. | Product No. | Description | 1     | 5     | 25    |
|----------|-------------|-------------|-------|-------|-------|
| 29399    | RD5         | 5-pin DIN   | \$.69 | \$.59 | \$.45 |

### Shielded (Mini DIN & DIN) – Right Angle

|         |        |                |         |        |        |
|---------|--------|----------------|---------|--------|--------|
| 140791  | MDR4S  | 4-pin mini DIN | \$ .49  | \$ .45 | \$ .39 |
| 2076720 | MDR5S+ | 5-pin mini DIN | ...49   | .45    | .39    |
| 119475  | MDR6S  | 6-pin mini DIN | ...89   | .79    | .69    |
| 207722  | MDR8S  | 8-pin mini DIN | ...89   | .79    | .69    |
| 2076746 | MDR9S+ | 9-pin mini DIN | ...89   | .79    | .69    |
| 2077811 | DRA5S+ | 5-pin DIN      | .....65 | .59    | .49    |
| 29410   | RD8    | 8-pin DIN      | .....65 | .59    | .49    |

### Unshielded (DIN) – Straight

ADAM TECH

2114159

NEW  
MARKED IN PINK

| Part No. | Mfr. Part No. | Description | 1     | 10    | 100   |
|----------|---------------|-------------|-------|-------|-------|
| 2114132  | DJN-003-B     | 3-pin DIN   | \$.69 | \$.65 | \$.59 |
| 2114141  | DJN-004-B     | 4-pin DIN   | .75   | .65   | .55   |
| 2114159  | DJN-005-B     | 5-pin DIN   | .79   | .75   | .69   |
| 2114167  | DJN-006-B     | 6-pin DIN   | .85   | .79   | .75   |
| 2114175  | DJN-007-B     | 7-pin DIN   | .89   | .85   | .79   |
| 2114183  | DJN-008-B     | 8-pin DIN   | .95   | .89   | .85   |

## Mini-DIN & DIN Plugs & Receptacles



\* Web Code: DAV

- Solder barrels w/ strain relief
- See pg 59 for cable

JAMECO  
EXCLUSIVE

| Part No. | Pins | Type                | 1     | 10    | 100   |
|----------|------|---------------------|-------|-------|-------|
| 142280   | 4    | Mini DIN plug       | \$.75 | \$.69 | \$.59 |
| 142262   | 6    | Mini DIN plug       | \$.95 | \$.85 | \$.75 |
| 177244   | 6    | Mini DIN receptacle | \$.95 | \$.85 | \$.75 |
| 111878   | 8    | Mini DIN plug       | 1.09  | \$.89 | \$.75 |
| 177236   | 8    | Mini DIN receptacle | \$.75 | \$.65 | \$.59 |
| 15879    | 5    | DIN plug            | \$.55 | \$.45 | \$.35 |
| 180873   | 5    | DIN receptacle      | \$.75 | \$.59 | \$.55 |
| 15887    | 6    | DIN plug            | \$.65 | \$.49 | \$.45 |
| 15895    | 8    | DIN plug            | \$.69 | \$.55 | \$.49 |

• Blue Part No. = Limited Quantity Available

## PS/2 – USB Adapter

This adapter allows you to use your PS/2 compatible mouse and keyboard as USB compatible devices.

- USB - A Male to two PS/2 female connectors
- Color coded PS/2 connectors for keyboard & mouse

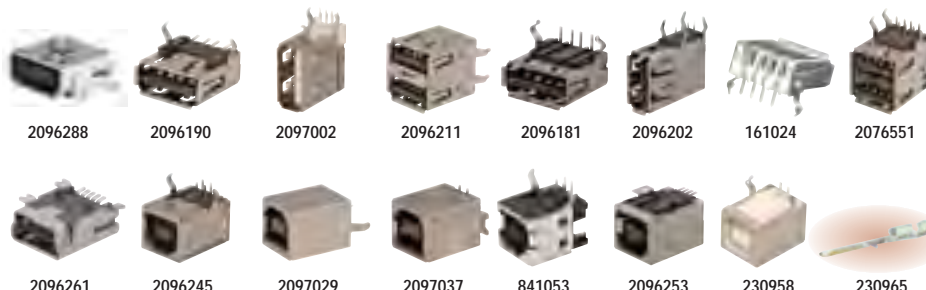
| Part No. | Length | Housing     | 1       | 5      | 25     |
|----------|--------|-------------|---------|--------|--------|
| 645351   | 13"    | USB adapter | \$10.95 | \$9.95 | \$8.95 |

## USB-A & B Connectors

NEW  
MARKED IN PINK

\* Web Code: DAZ

### 1.0 & 2.0 Female Connectors



• PC mount right angle with board locks

\* Order in multiples of 10

| Part No. | Mfr.     | Product No.       | Description                                      | 1     | 10    | 100   |
|----------|----------|-------------------|--|-------|-------|-------|
| 2096288  | Adamtech | MUSB-A-S-RA-TSMT  | Mini USB-A, right angle, true surface mount      | \$.79 | \$.69 | \$.59 |
| 2096270  | Adamtech | MUSB-AB1-S-RA-SMT | Mini USB-AB, right angle, surface mount          | .95   | .85   | .75   |
| 2096190  | Adamtech | USB-A-S-RA-SMT    | USB-A, right angle, surface mount                | .59   | .55   | .49   |
| 2097002  | Adamtech | USB-A-S-RU-TH     | USB-A, right angle upright, terminals horizontal | .59   | .55   | .49   |
| 2096211  | Adamtech | USB-A-D-VT        | USB-A, dual port, vertical                       | .59   | .55   | .49   |
| 2096181  | Adamtech | USB-A-S-RA        | USB-A, right angle                               | .39   | .35   | .29   |
| 2096202  | Adamtech | USB-A-S-RU        | USB-A, right angle upright                       | .49   | .45   | .39   |
| 2097011  | Adamtech | USB-A-S-VT        | USB-A, vertical                                  | .39   | .35   | .29   |
| 161024   | ValuePro | 1040              | USB-A 1.0  | .89   | .79   | .69   |
| 2076551  | KobiConn | UAR64-8W2100+     | USB-A 2.0, dual port                             | .95   | .79   | .49   |
| 2114263  | Adamtech | MUSB-B4-S-RA-TSMT | Mini USB-B, right angle, true surface mount      | .79   | .69   | .59   |
| 2096261  | Adamtech | MUSB-B5-S-RA-SMT  | Mini USB-B, right angle, surface mount           | .95   | .85   | .75   |
| 2096245  | Adamtech | USB-B-S-RA        | USB-B, right angle                               | .39   | .35   | .29   |
| 2097029  | Adamtech | USB-B-S-VT        | USB-B, vertical                                  | .59   | .55   | .49   |
| 2097037  | Adamtech | USB-B-VT-TSMT     | USB-B, vertical, true surface mount              | .95   | .85   | .75   |
| 841053   | AMP      | 292304-1          | USB-B  | 1.49  | 1.35  | 1.19  |
| 2096253  | Adamtech | USB-B-S-RA-SMT    | USB-B, right angle, surface mount                | .95   | .85   | .75   |
| 230958   | ValuePro | USB-B-S-RA-WT     | USB-A 2.0, right angle, white insulator          | .95   | .89   | .79   |
| 159724   | ValuePro | 20-P025G+         | Male crimp pin for USB 2.0                       | *     | .07   | .05   |
| 230965   | ValuePro | TATBA000K+        | Male crimp pin for USB 2.0                       | *     | .07   | .05   |

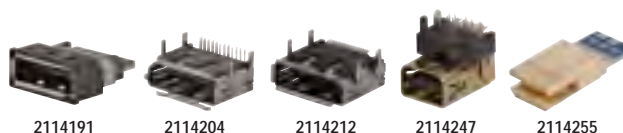
ADAM TECH

## Displayport Receptacles and Plugs

\* Web Code: DPP

Displayport receptacles & plugs are royalty free products that can be used in any application where an HDMI connection was previously required.

- 15µ gold plating



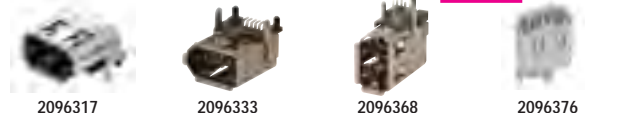
| Part No. | Mfr.                | Part No.                                  | Description | Type          | Mounting Style | 1      | 5      | 100    |
|----------|---------------------|---|-------------|---------------|----------------|--------|--------|--------|
| 2114191  | DPC-F-SD-15         | Displayport, receptacle, right angle      | Solder      | Through hole  | .....          | \$3.95 | \$3.49 | \$2.95 |
| 2114204  | DPC-F-S-RA-P-15     | Displayport, receptacle, right angle      | DIP         | Surface mount | .....          | 2.95   | 2.69   | 2.39   |
| 2114212  | DPC-F-S-RA-SMT-P-15 | Displayport, receptacle, right angle      | SMT         | Surface mount | .....          | 2.95   | 2.69   | 2.39   |
| 2114247  | MDPC-S-RA           | Mini displayport, receptacle, right angle | DIP         | Single port   | .....          | 2.49   | 2.25   | 1.95   |
| 2114255  | MDPG-PLUG           | Mini displayport, plug                    | —           | —             | .....          | 6.95   | 6.29   | 5.59   |

ADAM TECH

## IEEE 1394 Firewire Connectors

NEW  
MARKED IN PINK

- Operating voltage: 30VAC
- Current rating: 1A
- Insulation resistance: 100MΩ
- Rating: UL94V-0
- Single port



| Part No. | Mfr.           | Part No.      | Mounting Style       | Orientation | 1     | 10    | 100   |
|----------|----------------|---------------|----------------------|-------------|-------|-------|-------|
| 2096317  | FWC-C-S-RA     | Through hole  | Right angle          | .....       | \$.79 | \$.69 | \$.59 |
| 2096333  | FWC-C-S-RA-SMT | Surface mount | Right angle          | .....       | .89   | .79   | .69   |
| 2096368  | FWC-C-S-RU     | Through hole  | Right angle, upright | .....       | .89   | .79   | .69   |
| 2096376  | FWC-C-S-VT     | Through hole  | Vertical             | .....       | .79   | .69   | .59   |

All Jameco purchases are guaranteed for a full 90 days and even longer for Jameco House Brands.

• RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 197.

## D-Sub 9-Pin to 25-Pin Serial Adapters

- For use in AT or other computer systems that have 9-pin D-sub serial ports

★ Web Code: AAA

664296: Thumbscrews on both sides

10321: For PC/XT systems with DB25 serial ports.

163740/153576:

For PC/XT systems with DB25 serial ports.

| Part No. | Description                                    | 1      | 10     | 100    |
|----------|--|--------|--------|--------|
| 10305    | DB9 F to DB25 M                                | \$3.15 | \$2.65 | \$1.95 |
| 664296   | DB9 M to DB25 M+ thumbscrews on both sides     | .95    | .85    | .75    |
| 10321    | DB9 M to DB25 F                                | 4.49   | 3.95   | 3.65   |
| 163740   | DB9 M to DB25 F, thumbscrews on DB9 side only  | 1.49   | 1.35   | 1.19   |
| 153576   | DB9 M to DB25 F, thumbscrews on DB25 side only | 2.95   | 2.49   | 1.95   |

## Full Handshaking Null Modem Adapter

Self-contained null-modem (cross-over) adapters. Change any standard straight cable into a null cable quickly and easily.

★ Web Code: HAD

- Internal pin configuration: 1-1, 2-3, 3-2, 4-5, 5-4, 6-20, 20-6, 7-7, 8-20

| Part No. | Description      | 1      | 10     | 100    |
|----------|------------------|--------|--------|--------|
| 17224    | DB25 F to DB25 F | \$3.49 | \$3.15 | \$2.85 |

## Slim-Line D-Sub Gender Changers



### For Confined Applications!

These revolutionary slim-line gender changers are only 0.69" wide, eliminating the space problems caused by standard gender changers. When plugged into your existing cable, they add only 0.44" to the cable. All-metal cases.

- Captive locking screw (male)
- Captive locking nut (female)
- Grounding tangs (male)

★ Web Code: YAB

| Part No. | Description                       | 1      | 10     | 100    |
|----------|-----------------------------------|--------|--------|--------|
| 18498    | 9-pin male to male                | \$2.49 | \$2.25 | \$1.95 |
| 18489    | 9-pin female to female            | 2.49   | 2.25   | 1.95   |
| 56063    | 15-pin female to female           | 2.95   | 2.65   | 2.39   |
| 119320   | 15-pin female to female HD        | 2.95   | 2.65   | 2.39   |
| 119301   | 15-pin male to male HD            | 2.95   | 2.65   | 2.39   |
| 18447    | 25-pin male to male               | 2.95   | 2.65   | 2.39   |
| 18420    | 25-pin female to female           | 2.95   | 2.65   | 2.39   |
| 170085   | 25-pin male to female (pass thru) | 2.95   | 2.65   | 2.39   |

## D-Sub Gender Changer

- Standard 9 and 25-pin D-sub male and female gender changers for interfacing two cables or connectors of the same gender

★ Web Code: LAB

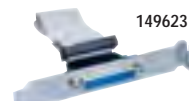
| Part No. | Description        | 1      | 10     | 100    |
|----------|--------------------|--------|--------|--------|
| 16643    | D-sub 9-pin female | \$1.49 | \$1.35 | \$1.19 |

## Panel Bracket Cable Assemblies

- Standard back panel bracket
- Ribbon cable with header connector
- Length: 12"

★ Web Code: RAX

355688: 1 serial port  
149623: 1 parallel port  
149614: 2 serial ports



| Part No. | Description                                    | 1      | 10     | 100    |
|----------|--|--------|--------|--------|
| 355688   | DB9M to 10-pin header F                        | \$3.95 | \$3.49 | \$2.95 |
| 1952265  | DB9F to 10-pin header F                        | 1.95   | 1.75   | 1.49   |
| 149614   | DB9M to 10-pin header & DB25M to 10-pin header | 3.95   | 3.49   | 2.95   |
| 149623   | DB25F to 26-pin header F                       | 3.95   | 3.49   | 2.95   |

## SCSI Adapter

125241: 50-pin ribbon header to HPDB50 female SCSI II

★ Web Code: PAD

| Part No. | Description               | 1      | 5      | 25     |
|----------|---------------------------|--------|--------|--------|
| 125241   | 50-pin header to HPDB50 F | \$4.69 | \$4.29 | \$3.89 |

## Computer Card Brackets

- For securing cards into bus slots
- Fits PC/XT/AT cases
- Length: 4.75"
- See pg 68 for DB connectors



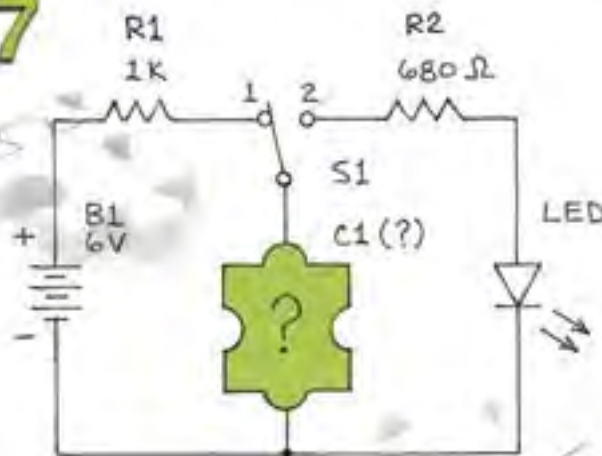
★ Web Code: EAM

| Part No. | Description        | Fig. | 1     | 10    | 100   |
|----------|--------------------|------|-------|-------|-------|
| 11755    | Blank back panel   | 1    | \$.95 | \$.85 | \$.75 |
| 101717   | For DB9 connector  | 2    | .35   | .29   | .25   |
| 101733   | For DB25 connector | 3    | .29   | .25   | .19   |
| 101742   | For DC37 connector | 4    | .49   | .39   | .29   |
| 101831   | For DB9/DB25 conn. | 5    | .75   | .69   | .59   |

# Jameco Puzzler 7

By Forrest M. Mims III

Electronics instructor Ollie Circuits planned to show his class, of freshman electrical engineering students, how to use a super capacitor as a memory back-up capacitor. First, he wanted to show how the students could make their own super capacitor and demonstrate its charge/discharge cycles with this simple circuit, to the right. Most of the components were already on his workbench, the homemade super capacitor would be made from several layers of lemon juice-soaked paper towels interleaved between several layers of a mystery material to form a multi-layer stack. The stacked layers would then be sandwiched between the two copper-clad PC boards and held together with a rubber band. Ollie rushed to a nearby pet shop. What did he buy?



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# IC Sockets & Single/Dual In-Line Strip Sockets

3 LEVELS OF SAVINGS  
NAME BRANDS HOUSE BRANDS FACTORY OVERRUN

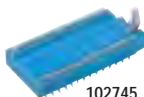
## ARRIS Low Profile ZIF Sockets

### Series 526

★ Web Code: UBX

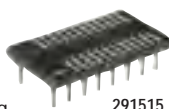
- Body: UL 94V-0 glass-filled polyester thermoplastic
- Beryllium copper alloy spring tempered contacts w/ 200µ" (5.08µm) tin plating
- Contact res.: 10mΩ max. • Contact current: 2A
- Breakdown voltage: 1000VAC min.
- Center pins: .600" (15.24mm) • Zinc alloy cam
- Operating temp.: -67°F to 221°F (-55°C to 105°C)
- Suggested PCB hole size: .035" Dia. (0.89mm)

| Part No. | Mfr. P/N                | Pins | L" x W"    | 1      | 5      | 25     |
|----------|-------------------------|------|------------|--------|--------|--------|
| 296789   | 24-526-10- <i>ARRIS</i> | 24   | 1.45 x .75 | \$6.95 | \$6.29 | \$5.69 |
| 102745   | 28-526-10- <i>ARRIS</i> | 28   | 1.64 x .75 | 7.95   | 7.15   | 6.45   |
| 102753   | 40-526-10- <i>ARRIS</i> | 40   | 2.24 x .75 | 9.75   | 8.79   | 7.89   |



## ARRIS SOIC/SOJ to DIP Adapters

- Board material: 0.062" thick FR-4 w/ 1 oz. copper traces on both sides
- Brass alloy pins with 200µ" (5.08µm) min. tin plating
- Operating temperature: 221°F (105°C) max.
- Suggested PCB hole size: 0.028" Dia. (0.71mm)
- Center pins: 0.300" (7.62mm)



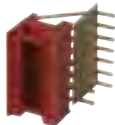
★ Web Code: YBS

| Part No. | Mfr. P/N                   | Pins | L" x W"    | 1      | 10     | 100    |
|----------|----------------------------|------|------------|--------|--------|--------|
| 291208   | 08-350000-10- <i>ARRIS</i> | 8    | .400 x .46 | \$5.95 | \$5.35 | \$4.79 |
| 291292   | 14-350000-10- <i>ARRIS</i> | 14   | .700 x .45 | 5.95   | 5.39   | 4.79   |
| 291515   | 16-350000-10- <i>ARRIS</i> | 16   | .800 x .45 | 6.39   | 5.75   | 5.15   |
| 291980   | 24-350000-10- <i>ARRIS</i> | 24   | 1.20 x .45 | 6.59   | 5.95   | 5.35   |

## ARRIS Series 800 Vertisocket

### With Bifurcated Contacts

- Body material: UL 94-HB glass filled nylon
- Phosphor bronze spring tempered bifurcated contacts
- Contact current: 1.5A • Gold plated
- Contact plating: 100µ" (2.54µm) tin or 10µ" (.254µm) gold • Center pins: 0.200"
- Suggested PCB hole size: 0.044" Dia. (1.12mm)



| Part No. | Mfr. P/N  | Pins | L" x W"   | 1      | 10     | 100    |
|----------|-----------|------|-----------|--------|--------|--------|
| 291485   | 14-823-90 | 14   | 1.4 x .39 | \$2.49 | \$2.29 | \$1.95 |



# High-Frequency Connectors & Adapters

## RF Adapters

★ Web Code: RFS

| Part No. | Manufacturer    | Product No.             | Description                        | 1      | 10     | 50     |
|----------|-----------------|-------------------------|------------------------------------|--------|--------|--------|
| 153454   | ValuePro        | SB-321- <i>ARRIS</i>    | SMA female to BNC male .....       | \$2.59 | \$2.29 | \$2.09 |
| 159469   | ValuePro        | CH-7830-N- <i>ARRIS</i> | SMA female to BNC female .....     | 3.59   | 3.09   | 2.89   |
| 153593   | ValuePro        | 4288- <i>ARRIS</i>      | SMA male to BNC male .....         | 3.95   | 3.55   | 3.19   |
| 159477   | ValuePro        | CH-7820-N- <i>ARRIS</i> | SMA male to BNC female .....       | 3.95   | 3.55   | 3.25   |
| 1951692  | Amphenol Connex | 242102- <i>ARRIS</i>    | SMA in-line plug to BNC jack ..... | 3.69   | 3.29   | 2.95   |
| 1951713  | Amphenol Connex | 242113- <i>ARRIS</i>    | SMA in-line jack to N plug .....   | 7.45   | 6.75   | 6.25   |
| 1951764  | Amphenol Connex | 242127- <i>ARRIS</i>    | SMA female to MCX male .....       | 11.95  | 10.95  | 9.95   |
| 1951887  | Amphenol Connex | 2421124- <i>ARRIS</i>   | SMA in-line plug to TNC jack ..... | 6.95   | 6.39   | 5.69   |
| 1951772  | Amphenol Connex | 242105- <i>ARRIS</i>    | SMA in-line jack to TNC plug ..... | 5.49   | 4.95   | 4.49   |
| 1951852  | Amphenol Connex | 242131- <i>ARRIS</i>    | N-female to TNC male .....         | 9.95   | 8.95   | 7.95   |
| 1951721  | Amphenol Connex | 242141- <i>ARRIS</i>    | SMA jack to MMCX plug .....        | 12.95  | 11.95  | 10.95  |
| 1951748  | Amphenol Connex | 242149- <i>ARRIS</i>    | BNC in-line jack to TNC plug ..... | 5.95   | 5.25   | 4.75   |
| 1951705  | Amphenol Connex | 242156- <i>ARRIS</i>    | N-plug to F jack .....             | 9.95   | 8.95   | 7.95   |
| 1951781  | Amphenol Connex | 242185- <i>ARRIS</i>    | BNC jack to SMB plug .....         | 9.95   | 8.95   | 7.95   |

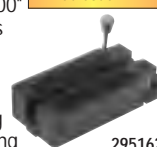
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## ARRIS High Temp. Universal ZIF Test Sockets

### Series 6554

★ Web Code: AAN

- Accepts devices on .300" to .600" (7.62mm to 15.24mm) centers
- -10: 100µ" tin over 50µ" nickel; -11: 10µ" gold over 50µ" nickel
- Operating temperature: -10: 221°F (105°C) – tin plating -11: 302°F (150°C) – gold plating
- Socket body: UL 94V-0 glass-filled PPS
- Beryllium copper contact plating
- Stainless steel handle • Center pins: 0.600"
- Insulation res.: 1000MΩ • Contact current: 1A
- Dielectric withstanding voltage: 1000VAC



| Part No. | Mfr. P/N                 | Pins | L" x W"   | 1      | 5      | 25     |
|----------|--------------------------|------|-----------|--------|--------|--------|
| 103992   | 24-6554-10- <i>ARRIS</i> | 24   | 1.8 x 0.9 | \$7.75 | \$6.95 | \$6.29 |
| 104003   | 28-6554-10- <i>ARRIS</i> | 28   | 2.0 x 0.9 | 8.95   | 7.95   | 6.95   |
| 104012   | 32-6554-10- <i>ARRIS</i> | 32   | 2.1 x 0.9 | 9.95   | 8.95   | 7.95   |
| 104030   | 40-6554-10- <i>ARRIS</i> | 40   | 2.5 x 0.9 | 11.95  | 10.75  | 9.69   |
| 295162   | 28-6554-11- <i>ARRIS</i> | 28   | 1.4 x 0.9 | 14.95  | 13.95  | 12.95  |
| 295209   | 32-6554-11- <i>ARRIS</i> | 32   | 1.6 x 0.9 | 11.95  | 10.95  | 9.95   |
| 295233   | 40-6554-11- <i>ARRIS</i> | 40   | 2.0 x 0.9 | 15.95  | 14.49  | 12.95  |

## ARRIS Universal SOIC to .600" DIP Adapter

### Series 647

- Brass alloy female pin body with 200µ" (5.08µm) tin/lead plating
- Beryllium copper 4-fingered collet contact with 10µ" (0.25µm) gold over nickel plating
- Phosphor bronze alloy male pin with 200µ" (5.08µm) tin/lead plating • Contact current: 3A
- Suggested PCB hole size: 0.028" Dia.



| Part No. | Mfr. P/N  | Positions | 1       | 5       |
|----------|-----------|-----------|---------|---------|
| 295283   | 44-647-10 | 44        | \$69.95 | \$63.95 |

## Audio/Video Adapter

- Converts impedance of video/audio signals (NTSC & PAL) to 100Ω for transmission over CAT 5 UTP cable
- Video trans. distance: 1000' color/2000' black/white
- Signal pair: Video (BNC), CAT pair 1 (RJ45)



| Part No. | Description               | 1       | 5       |
|----------|---------------------------|---------|---------|
| 210471   | BNC/RJ45 with cable ..... | \$12.95 | \$11.95 |

## JAMECO ValuePro .100" Single-In-Line Machine Tooled Strip Sockets



- Machine tooled
- Solder tail or wire wrap
- Standard lead length: .160" • Single or double row

★ Web Code: KAM

| Part No. | Description                                    | 1      | 10     | 100    |
|----------|--|--------|--------|--------|
| 164822   | 4-pin straight single row .....                | \$ .75 | \$ .65 | \$ .59 |
| 138684   | 5-pin straight single row .....                | .75    | .65    | .59    |
| 2100339  | 7-pin straight single row .....                | .99    | .89    | .69    |
| 102201   | 10-pin straight single row- <i>ARRIS</i> ..... | 1.19   | .95    | .75    |
| 2100347  | 12-pin straight single row .....               | 1.29   | 1.09   | .85    |
| 78642    | 30-pin straight single row- <i>ARRIS</i> ..... | 1.49   | 1.29   | .95    |
| 175920   | 36-pin straight single row- <i>ARRIS</i> ..... | 1.75   | 1.59   | 1.29   |
| 101283   | 20-pin WW2 single row- <i>ARRIS</i> ↑ .....    | 1.95   | 1.75   | 1.59   |
| 104054   | 30-pin WW3 single row- <i>ARRIS</i> * .....    | 2.95   | 2.59   | 2.39   |

↑ Lead length: .435"(2) \* Lead length: .575"(3)

## JAMECO ValuePro Machine Contact Dual-In-Line Female Sockets

- 0.100" centers
- Pin sleeve: tin
- Solder tail contact: .114"L
- Contact clip: gold



| Part No. | Cross Ref. No.         | Pins | 1     | 10    | 100   |
|----------|------------------------|------|-------|-------|-------|
| 212856   | SA101000- <i>ARRIS</i> | 10   | \$.95 | \$.85 | \$.75 |
| 212863   | SA121000               | 12   | .75   | .65   | .59   |
| 212871   | SA141000               | 14   | .75   | .65   | .59   |
| 212880   | SA161000               | 16   | .85   | .75   | .65   |
| 184613   | SA201000- <i>ARRIS</i> | 20   | .85   | .75   | .65   |
| 212901   | SA221000               | 22   | .85   | .75   | .65   |
| 212936   | SA481000- <i>ARRIS</i> | 48   | 1.25  | 1.09  | .99   |

## We're Listening to What You Need

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# RF Connectors, Adapters & Universal Hand Crimp Tools



## RF Adapters (Continued)

\* Web Code: RFS

| Part No. | Manufacturer | Product No. | Description                    | 1      | 10     | 50     |
|----------|--------------|-------------|--------------------------------|--------|--------|--------|
| 207168   | ValuePro     | BJ-7072     | RCA female to BNC female       | \$2.39 | \$2.15 | \$1.89 |
| 114789   | ValuePro     | BR312       | RCA female to BNC male         | 1.59   | 1.25   | 1.15   |
| 207176   | ValuePro     | BJ-7055     | RCA male to BNC male           | 2.95   | 2.55   | 2.25   |
| 114753   | ValuePro     | RB312       | RCA male to BNC female         | 1.59   | 1.45   | 1.29   |
| 114770   | ValuePro     | 200-108     | BNC female to F connector male | 1.79   | 1.59   | 1.39   |
| 174255   | ValuePro     | TBC-176     | BNC male to F connector female | 2.35   | 1.85   | 1.69   |
| 309657   | ValuePro     | 200-045     | RCA female to F male adapter   | 1.49   | 1.35   | 1.19   |



## 50Ω TNC Connectors

| Part No. | Manufacturer    | Mfr. Part No. | Description   | 1      | 10     | 50     |
|----------|-----------------|---------------|---|--------|--------|--------|
| 658611   | Amphenol Connex | 122140        | Right angle crimp/solder plug (RG-58/58A/58C/141/303) | \$2.95 | \$2.69 | \$2.45 |
| 296163   | Amphenol Connex | 122372        | Straight crimp plug (RG-55/142/223/400)               | 1.39   | 1.25   | 1.09   |
| 296155   | Amphenol Connex | 122108        | Plug crimp-crimp (RG-58/141)                          | 1.25   | 1.09   | .95    |
| 2098275  | Amphenol Connex | 122108RP      | Plug crimp-crimp reverse polarity (RG-58/141)         | 1.99   | 1.89   | 1.75   |



## 50Ω MMCX Connectors

| Part No. | Manufacturer | Cross Ref. No. | Description                              | 1      | 10     | 50     |
|----------|--------------|----------------|--|--------|--------|--------|
| 311686   | ValuePro     | 908-43200      | Right angle plug, crimp (RG-178/U)       | \$3.39 | \$3.09 | \$2.79 |
| 311693   | ValuePro     | 908-43300      | Right angle plug, crimp (RG-174/188/316) | 2.25   | 1.95   | 1.75   |

## UHF Connectors & Adapters

\* Web Code: UCA

| Part No. | Manufacturer    | Mfr. Part No. | Description  | 1      | 10     | 50     |
|----------|-----------------|---------------|--|--------|--------|--------|
| 223837   | Amphenol RF     | 83-1T         | In-series T-adapter, jack-plug-jack                        | \$8.95 | \$7.95 | \$6.95 |
| 668377   | Amphenol Connex | 182106        | PL-259 Straight adapter, nickel finish, phenolic insulator | 3.25   | 2.95   | 2.75   |
| 668385   | Amphenol Connex | 182107        | UG-175-U Reducing adapter, nickel finish, for 668377       | .55    | .49    | .39    |

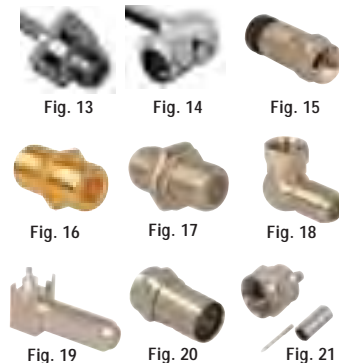


## 50Ω Type N Connectors

\* Web Code: TNC

| Part No. | Manufacturer    | Product No. | Fig. | Description  | 1       | 10      | 50      |
|----------|-----------------|-------------|------|--|---------|---------|---------|
| 697039   | Amphenol RF     | 82-66       | 1    | Jack-to-jack adapter, water tight                                | \$22.95 | \$21.95 | \$20.95 |
| 311600   | ValuePro        | 82-97       | 2    | 50Ω receptacle jack, panel mount                                 | 3.65    | 2.95    | 2.55    |
| 311619   | ValuePro        | 82-202-1006 | 3    | N-clamp plugs, for B9913/TWB301 cables                           | 3.95    | 3.59    | 3.29    |
| 296454   | Amphenol Connex | 172100      | 4    | Crimp plug captive contact (RG-58/58A/58C/141/303/LMR195/B7806A) | 3.95    | 3.55    | 3.19    |
| 296489   | Amphenol Connex | 172103      | 5    | Crimp jack captive contact (RG-58/58A/58C/141/303/LMR195/B7806A) | 3.49    | 3.19    | 2.95    |
| 659278   | Amphenol Connex | 172119      | 6    | Panel receptacle jack, solder terminal (all 50Ω coax cables)     | 5.95    | 5.49    | 4.95    |
| 659286   | Amphenol Connex | 172122      | 7    | Plug-to-plug adapter (all 50Ω coax cables)                       | 6.85    | 6.55    | 6.19    |
| 1956581  | Amphenol Connex | 172123A     | 8    | Jack-to-jack adapter   | 3.49    | 3.19    | 2.95    |
| 659294   | Amphenol Connex | 172123      | 9    | Jack-to-jack adapter   | 4.95    | 4.45    | 3.95    |
| 659307   | Amphenol Connex | 172124      | 10   | Bulkhead jack-to-jack adapter                                    | 7.95    | 7.29    | 6.59    |
| 659315   | Amphenol Connex | 172126      | 11   | Angled plug-to-jack adapter                                      | 9.95    | 8.95    | 7.95    |
| 296518   | Amphenol Connex | 172129      | 12   | Bulkhead crimp jack captive contact (RG-174/188A/316/B7805A)     | 5.49    | 4.95    | 4.49    |
| 296569   | Amphenol Connex | 172138      | 12   | Bulkhead solder jack, .085 semi-rigid (RG-405/U)                 | 4.49    | 3.95    | 3.69    |
| 296585   | Amphenol Connex | 172165      | 12   | Bulkhead crimp jack captive contact (RG-316/U double braided)    | 3.95    | 3.69    | 3.39    |
| 659235   | Amphenol Connex | 172173      | 13   | Crimp panel jack captive contact (RG-174/188A/316/B7805A)        | 4.49    | 3.95    | 3.59    |
| 659171   | Amphenol Connex | 172180      | 14   | Right angle crimp plug (RG-174/188A/316/B7805A)                  | 5.49    | 4.95    | 4.49    |

\* Use crimp tool 667921 (below)



## 75Ω "F" Connectors, Adapters & Terminators

\* Web Code: FCA

| Part No. | Manufacturer    | Product No. | Fig. | Description                                     | 1      | 10     | 50     |
|----------|-----------------|-------------|------|---|--------|--------|--------|
| 291531   | ValuePro        | 200-028     | 15   | Perma-seal, RG-6 coax                           | \$ .79 | \$ .69 | \$ .65 |
| 291725   | ValuePro        | 200-051     | 16   | F-jack to jack (gold)                           | 1.39   | 1.25   | 1.15   |
| 295371   | ValuePro        | 200-053     | 17   | F-panel mount jack to jack (nickel)             | .29    | .25    | .19    |
| 295380   | ValuePro        | 200-107     | 18   | F-right angle jack to plug (nickel)             | 2.35   | 1.95   | 1.65   |
| 1952943  | Foxconn         | 200-190     | 19   | F-right angle PC mount jack (90° barrel)        | .75    | .69    | .65    |
| 289887   | ValuePro        | 200-035     | 20   | F-crimp on for RG-6, nickel plated              | .25    | .22    | .15    |
| 2098267  | Amphenol Connex | 222113      | 21   | F-crimp plug, 75Ω, for RG-179U                  | 1.09   | .95    | .79    |
| 2099737  | ValuePro        | 25-7010     | 21   | F-crimp on plug for RG-6, nickel plated, 2 pcs. | .79    | .69    | .59    |

## Universal Hand Crimp Tools

| Part No. | Manufacturer    | Product No. | Die Cavities (in.)       | Cable Groups                                       | 1       | 5       |
|----------|-----------------|-------------|--------------------------|--|---------|---------|
| 667850   | Amphenol Connex | 47-10070    | .255/.213/.068           | RG-55/58/59/62/141/142/223/303/400 (BNC/TNC)       | \$74.95 | \$69.95 |
| 667905   | Amphenol Connex | 47-10150    | .178/.128/.068           | RG-174/188/316/179/187/180/195/178/196 (BNC/TNC)   | 74.95   | 69.95   |
| 667921   | Amphenol Connex | 47-10180    | .255/.213/.100/.068/.052 | 5 cavity RG-58/59 N/BNC/TNC/SMA connectors         | 74.95   | 69.95   |
| 261745   | Various         | DL-806A     | .255/.213/.068           | For RG-58/59, BNC/TNC connectors with 3/8" ferrule | 17.95   | 15.95   |

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

## 50Ω/75Ω BNC Connectors and Adapters

★ Web Code: BCA



### Plugs

| Part No. | Manufacturer    | Product No.   | Fig. | Description  | 1      | 10     | 50     |
|----------|-----------------|---------------|------|--|--------|--------|--------|
| 355099   | ValuePro        | 31-202        | 1    | 50Ω plug, clamp, for RG-58/141/142/400 (UG-88/U)                   | \$2.29 | \$2.15 | \$1.95 |
| 223431   | Amphenol RF     | 31-202        | 1    | 50Ω plug, solder cup, for RG-141/58/58C/B7806A                     | 3.95   | 3.55   | 3.19   |
| 355135   | ValuePro        | 31-212        | 1    | 50Ω/75Ω plug, clamp, for RG-59/62/140/302                          | 2.29   | 2.15   | 1.95   |
| 311378   | ValuePro        | 31-315        | 2    | 50Ω plug, 3 pcs, crimp, for RG-174; 188/U                          | 4.49   | 3.95   | 3.59   |
| 355216   | ValuePro        | 31-315-RFX    | 1    | 50Ω plug, 3 pcs, crimp, for RG-174/U; 188A/U; 316/U                | 1.95   | 1.75   | 1.55   |
| 188349   | Amphenol RF     | 31-315-RFX    | 1    | 50Ω plug, 3 pcs, crimp, for RG-174/U; 188A/U; 316/U                | 2.29   | 1.95   | 1.75   |
| 188306   | Amphenol RF     | 31-320-RFX    | 1    | 50Ω plug, 3 pcs, crimp, for RG-58/58C/141/B7806A                   | 1.49   | 1.25   | 1.15   |
| 355240   | ValuePro        | 31-320-RFX    | 3    | 50Ω plug, 3 pcs, crimp, for RG-58/58C/141/B7806A                   | 1.79   | 1.59   | 1.39   |
| 311394   | ValuePro        | 31-321        | 4    | 50Ω plug, 3 pcs, crimp, for RG-59/U                                | 2.95   | 2.69   | 2.39   |
| 311408   | ValuePro        | 31-321-RFX    | 4    | 50Ω plug, 3 pcs, crimp, for RG-59                                  | 1.29   | 1.15   | .95    |
| 135618   | ValuePro        | 200-141       | 3    | 75Ω plug, 3 pcs, crimp, for RG-6                                   | 1.39   | 1.19   | 1.09   |
| 71781    | ValuePro        | 200-142       | 5    | 75Ω plug, twist-on, for RG-59                                      | 1.25   | 1.15   | .95    |
| 71271    | ValuePro        | 200-143       | 3    | 75Ω plug, 3 pcs, crimp, for RG-59                                  | 1.15   | .95    | .89    |
| 119394   | ValuePro        | 200-144       | 6    | 75Ω plug, clamp-on, for RG-59                                      | .95    | .85    | .75    |
| 71482    | ValuePro        | 200-145       | 3    | 50Ω plug, 3 pcs, crimp, for RG-58                                  | 1.65   | 1.49   | 1.45   |
| 108994   | ValuePro        | 200-146       | 5    | 50Ω plug, twist-on, for RG-58                                      | .69    | .63    | .55    |
| 355362   | ValuePro        | 6775          | 7    | 50Ω plug, clamp, for RG-8/9/87A/213/214/225                        | 2.95   | 2.65   | 2.39   |
| 295953   | Amphenol Connex | 112116        | 8    | 50Ω crimp plug, captive contact, for RG-58/58A/58C/141/303         | 1.49   | 1.35   | 1.19   |
| 296008   | Amphenol Connex | 112132        | 8    | 50Ω crimp plug, captive contact, for RG-174/188A/316/B7805A        | 2.49   | 2.25   | 1.75   |
| 2098259  | Amphenol Connex | 112521        | 3    | 50Ω plug, 3-PC, crimp, for Belden 1865A/8218/B1417B/B1164B/RG-B809 | 1.69   | 1.39   | 1.29   |
| 311319   | ValuePro        | 68175-5RFX    | 4    | 50Ω/75Ω plug, 3 pcs, crimp, for RG-59                              | 1.29   | 1.15   | .89    |
| 311327   | ValuePro        | 69475         | 7    | 50Ω/75Ω plug, clamp, for RG-174/179/187/188/316                    | 1.95   | 1.75   | 1.55   |
| 207183   | ValuePro        | BJ-70941      | 9    | 50Ω/75Ω male clamp-on, for RG-58/59                                | 2.29   | 2.15   | 1.95   |
| 112110   | ValuePro        | G7409         | 3    | 50Ω male with pin and ferrule, for RG-174                          | 3.59   | 3.25   | 2.95   |
| 311511   | ValuePro        | 31-7000       | 10   | 75Ω plug, 3 pcs, crimp, for RG-6/212; Belden 9290/89248            | 2.49   | 2.25   | 1.95   |
| 311520   | ValuePro        | 31-70008-1000 | 10   | 75Ω plug, 3 pcs, crimp, for RG-59/62; Belden 8241/8263/8279/9209   | 3.95   | 3.49   | 2.95   |
| 311538   | ValuePro        | 31-71000-RFX  | 11   | 75Ω plug, 3 pcs, crimp, for RG-6/212; Belden 9290/89248            | 1.89   | 1.75   | 1.35   |
| 311546   | ValuePro        | 31-71008-RFX  | 11   | 75Ω plug, 3 pcs, crimp, for RG-59/62; Belden 8241/8263/8279/9209   | 1.89   | 1.49   | 1.39   |
| 311554   | ValuePro        | 31-71013-RFX  | 12   | 75Ω plug, 3 pcs, crimp, for RG-179/179B/187A; Belden 9221          | 1.69   | 1.55   | 1.29   |
| 311572   | ValuePro        | 31-71032      | 3    | 75Ω plug, 3 pcs, crimp, for RG-59/140; Belden 8241/8279            | 2.95   | 2.49   | 1.95   |
| 295970   | Amphenol Connex | 112119        | 8    | 75Ω crimp plug, captive contact, for RG-59/62/140/210              | 1.49   | 1.35   | 1.19   |
| 296016   | Amphenol Connex | 112133        | 8    | 75Ω crimp plug, captive contact, for RG-179/187/B9221              | 1.95   | 1.75   | 1.59   |
| 2098241  | Amphenol Connex | 112491-10     | 3    | 75Ω crimp plug, for 100MHz RGB cable                               | 2.39   | 1.95   | 1.75   |

### Terminators

★ Blue Part No. = Limited Quantity Available

| Part No. | Manufacturer    | Product No. | Fig. | Description                   | 1      | 10     | 50     |
|----------|-----------------|-------------|------|-------------------------------|--------|--------|--------|
| 71458    | ValuePro        | B-611T      | 13   | BNC male terminator (50Ω)     | \$1.95 | \$1.39 | \$1.19 |
| 71790    | ValuePro        | 200-177     | 13   | BNC male terminator (75Ω, 5%) | 1.65   | 1.29   | 1.09   |
| 658540   | Amphenol Connex | 202100      | 14   | Male cap with chain           | 2.15   | 2.05   | 1.95   |
| 658523   | Amphenol Connex | 202103      | 15   | 50Ω terminator plug           | 2.25   | 1.89   | 1.69   |
| 658531   | Amphenol Connex | 202105      | 15   | 75Ω terminator plug           | 1.75   | 1.69   | 1.49   |

### Jacks

| Part No. | Manufacturer    | Product No. | Fig. | Description  | 1      | 10     | 50     |
|----------|-----------------|-------------|------|--|--------|--------|--------|
| 355120   | ValuePro        | 31-203      | 16   | 50Ω jack, panel mount, solder cup                                | \$2.95 | \$2.65 | \$2.25 |
| 355224   | ValuePro        | 31-318-RFX  | 17   | 50Ω bulkhead jack, crimp, for RG-174/U; 188A/U; 316/U            | 2.49   | 2.25   | 1.95   |
| 355178   | ValuePro        | 31-221      | 18   | 50Ω jack, panel mount, solder cup (UG-1094/U)                    | 1.95   | 1.75   | 1.59   |
| 223511   | Amphenol RF     | 31-221      | 19   | 50Ω jack, panel mount, solder cup                                | 2.25   | 1.95   | 1.75   |
| 658401   | Amphenol Connex | 112235      | 20   | 75Ω bulkhead jack, crimp, for RG-179/U; 187A/U                   | 2.75   | 2.49   | 2.25   |
| 658427   | Amphenol Connex | 112424      | 21   | 50Ω bulkhead jack, solder terminal                               | 1.85   | 1.65   | 1.49   |
| 296067   | Amphenol Connex | 112431      | 22   | 50Ω bulkhead jack, isolated, solder terminal                     | 3.29   | 3.19   | 2.95   |
| 658380   | Amphenol Connex | 112505      | 20   | 50Ω bulkhead jack, crimp, for RG-55/U; 142A/U; 223/U; 400/U      | 2.69   | 2.39   | 2.19   |
| 658443   | Amphenol Connex | 112538      | 23   | 50Ω jack, PCB mount, for all 50Ω coax cables                     | 1.39   | 1.25   | 1.09   |
| 493917   | AMP             | 227161-3    | 24   | 50Ω jack, right angle, PCB                                       | 2.49   | 2.25   | 1.95   |
| 421331   | AMP             | 227726-3    | 25   | 50Ω jack, isolated, solder                                       | 2.49   | 2.25   | 1.95   |
| 111561   | ValuePro        | 200-148     | 26   | Jack, isolated, panel mount                                      | 2.29   | 1.95   | 1.79   |
| 160929   | ValuePro        | B211F-58    | 27   | Jack, crimp type, for RG-58                                      | 1.49   | 1.25   | 1.15   |
| 161922   | ValuePro        | B211F-174   | 27   | Jack, crimp type, for RG-174                                     | 1.95   | 1.65   | 1.45   |
| 2077618  | Various         | BNC-CR      | 28   | Jack, chassis PCB receptacle                                     | .75    | .65    | .59    |
| 146511   | ValuePro        | CH-7044S    | 29   | Jack, right angle, plastic insulation, PC mount, w/ washer & nut | 2.69   | 2.39   | 2.05   |
| 161656   | ValuePro        | CH-7087D    | 30   | Jack, right angle, metal, PC mount                               | 1.95   | 1.75   | 1.49   |
| 71590    | ValuePro        | G1B235      | 31   | Jack, panel mount (UG-1094A)                                     | 1.95   | 1.79   | 1.65   |
| 1952821  | Foxconn         | KDA1001-H0  | 32   | Jack, right angle, plastic insulation, PC mount                  | .95    | .89    | .75    |
| 174290   | ValuePro        | TBC-090     | 16   | Jack, chassis mount  | 1.85   | 1.59   | 1.19   |
| 174297   | ValuePro        | TBC-101     | 33   | Jack, twist on, bulkhead   | 1.29   | 1.09   | .95    |

\* Use tool 667850, pg 85 † Use tool 667905, pg 85

RoHS compliant product

+ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 197.

## 50Ω/75Ω BNC Connectors and Adapters (Continued)

\* Web Code: BCA

### Adapters/Couplers

| Part No. | Manufacturer    | Product No. | Fig. | Description   | 1      | 10     | 50     |
|----------|-----------------|-------------|------|---|--------|--------|--------|
| 311344   | ValuePro        | 31-10-RFX   | 1    | 50Ω jack, bulkhead                                      | \$2.45 | \$2.25 | \$1.95 |
| 188429   | Amphenol RF     | 31-208-RFX  | 2    | Jack-plug-jack  | 4.25   | 3.75   | 3.39   |
| 363961   | ValuePro        | 31-218      | 3    | 50Ω straight adapter, plug-plug (UG-491A/U)             | 3.95   | 3.55   | 3.19   |
| 188411   | Amphenol RF     | 31-219-RFX  | 4    | 50Ω straight adapter, jack-jack                         | 3.95   | 3.49   | 3.15   |
| 355152   | ValuePro        | 31-219-RFX  | 4    | 50Ω straight adapter, jack-jack (UG-914/U)              | 3.25   | 2.39   | 2.09   |
| 311351   | ValuePro        | 31-220N-RFX | 5    | 50Ω bulkhead adapter, jack-jack                         | 2.39   | 2.19   | 1.95   |
| 72629    | ValuePro        | 200-150     | 6    | Female to female/female T-adapter                       | 1.95   | 1.75   | 1.55   |
| 118594   | ValuePro        | 200-155     | 7    | Male to female/female T-adapter                         | 1.95   | 1.75   | 1.55   |
| 71909    | ValuePro        | 200-160     | 8    | Female/female coupler (UG-914)                          | 1.29   | .95    | .85    |
| 148224   | ValuePro        | 200-165     | 9    | Coupler, jack-jack, panel mount                         | 1.95   | 1.89   | 1.69   |
| 100597   | ValuePro        | 40958-Y     | 10   | Male to female/female T-adapter (180°)                  | 6.95   | 6.25   | 5.65   |
| 658451   | Amphenol Connex | 112437      | 11   | 50Ω jack-to-jack bulkhead adapter (all 50Ω coax cables) | 2.95   | 2.85   | 2.75   |
| 658507   | Amphenol Connex | 112445      | 4    | 50Ω straight adapter, jack-jack                         | 2.69   | 2.49   | 2.25   |
| 2115485  | Emerson         | 27-8140     | 3    | 50Ω T-adapter, jack-plug-jack                           | 1.65   | 1.49   | 1.25   |
| 296083   | Amphenol Connex | 112446      | 4    | 75Ω straight adapter, jack-jack                         | 2.25   | 1.89   | 1.69   |
| 658515   | Amphenol Connex | 112461      | 12   | 50Ω T-adapter, jack-plug-jack                           | 2.39   | 2.19   | 1.95   |
| 117461   | ValuePro        | B-068       | 13   | Male to female/female F-adapter (90°)                   | 3.95   | 3.55   | 3.19   |
| 127343   | ValuePro        | B-311       | 3    | Male/male coupler (UG-491B/U)                           | 2.39   | 2.05   | 1.69   |
| 148232   | ValuePro        | B-332-IF    | 9    | Coupler, jack-jack, isolated                            | 1.95   | 1.75   | 1.49   |
| 127352   | ValuePro        | B-412       | 14   | Male to female right angle (DG-306B/O)                  | 3.79   | 2.85   | 2.15   |
| 207095   | ValuePro        | BJ-7079     | 15   | Female to male/male T-adapter                           | 3.95   | 3.49   | 2.95   |
| 207116   | ValuePro        | BJ-7082     | 16   | Male to female/female/female T-adapter                  | 3.95   | 3.49   | 2.95   |

Blue Part No. = Limited Quantity Available

## SMA/SMB Connectors

\* Web Code: SET

### SMA Connectors (50Ω)

| Part No. | Manufacturer    | Product No.   | Fig. | Description  | Plating | 1      | 10     | 50     |
|----------|-----------------|---------------|------|--|---------|--------|--------|--------|
| 157972   | ValuePro        | 19-03F-4TGG   | 17   | Straight crimp type male plug (RG-58)                    | Gold    | \$3.95 | \$3.59 | \$3.29 |
| 145382   | ValuePro        | 19-46G        | 18   | Straight female PCB mount, 4 legs                        | Gold    | 3.95   | 3.59   | 3.29   |
| 145374   | ValuePro        | 19-49G        | 19   | 90° female PCB mount, 4 legs                             | Gold    | 3.95   | 3.59   | 2.95   |
| 355283   | ValuePro        | 901-143-6-RFX | 20   | Jack, right angle, PC mount                              | Gold    | 4.95   | 4.45   | 3.95   |
| 188525   | Amphenol RF     | 901-143-6-RFX | 20   | Jack, right angle, PC mount                              | Gold    | 4.95   | 4.49   | 3.95   |
| 188509   | Amphenol RF     | 901-144-8-RFX | 18   | Jack, right angle, PC mount                              | Gold    | 3.49   | 3.15   | 2.85   |
| 355292   | ValuePro        | 901-9876-RFX  | 21   | Straight plug, crimp (RG-58/U; RG-58C/U; 141)            | Nickel  | 2.55   | 2.19   | 1.79   |
| 188488   | Amphenol RF     | 901-9877-RFX  | 22   | Straight plug, crimp (RG-174/U; RG-188A/U; RG-316/U)     | Gold    | 2.95   | 2.65   | 2.39   |
| 355304   | ValuePro        | 901-9877-RFX  | 22   | Straight plug, crimp (RG-174/U; RG-188A/U; RG-316/U)     | Gold    | 2.49   | 2.25   | 1.95   |
| 153366   | ValuePro        | 4804          | 22   | Straight crimp type male plug (RG-174)                   | Gold    | 2.95   | 2.65   | 2.39   |
| 296227   | Amphenol Connex | 132101        | 23   | Straight cable plug w/ contact (RG-405U)                 | Gold    | 2.79   | 2.49   | 2.25   |
| 296251   | Amphenol Connex | 132105        | 24   | Bulkhead feed-through jack (RG-405U)                     | Gold    | 3.49   | 3.19   | 2.95   |
| 296315   | Amphenol Connex | 132113        | 23   | Straight crimp plug (RG-58/58A/58C/141/303)              | Gold    | 2.69   | 2.39   | 2.19   |
| 296323   | Amphenol Connex | 132114        | 23   | Straight crimp plug (RG-174/188/316/B7805A)              | Gold    | 2.95   | 2.69   | 2.39   |
| 658849   | Amphenol Connex | 132118        | 25   | Bulkhead crimp jack (RG-58/58A/58C/141/303)              | Gold    | 3.49   | 3.19   | 2.95   |
| 296331   | Amphenol Connex | 132119        | 25   | Bulkhead crimp jack (RG-174/188A/316/B7805A)             | Gold    | 3.95   | 3.69   | 3.39   |
| 296366   | Amphenol Connex | 132123        | 26   | Right angle crimp plug (RG-174/188A/316/B7815A)          | Gold    | 4.49   | 3.95   | 3.69   |
| 296374   | Amphenol Connex | 132134        | 18   | Straight jack, PCB                                       | Gold    | 2.95   | 2.69   | 2.39   |
| 658996   | Amphenol Connex | 132136        | 19   | Right angle jack, PCB                                    | Gold    | 3.95   | 3.69   | 3.39   |
| 658961   | Amphenol Connex | 132198        | 27   | Straight crimp jack (RG-316U double braided)             | Gold    | 3.49   | 2.95   | 2.65   |
| 159531   | ValuePro        | CH-7814       | 28   | Female panel mount, 4 mounting holes (G-58/174)          | Gold    | 3.75   | 3.15   | 2.95   |
| 160022   | ValuePro        | CH-7815-G     | 29   | Female panel mount, 2 mounting holes (RG-58/174)         | Gold    | 4.79   | 3.75   | 3.55   |
| 160013   | ValuePro        | CH-7818-N     | 30   | Panel mount feed thru, female-female                     | Nickel  | 4.95   | 4.25   | 3.75   |
| 153286   | ValuePro        | SMA-7813      | 31   | Bulkhead solder female w/ washer, rear mount (RG-58/174) | Gold    | 2.95   | 2.65   | 2.39   |

\* Use crimp tool 667905, pg 85

† Use crimp tool 667921, pg 85

‡ Solder cup

### SMB Connectors

| Part No. | Manufacturer    | Product No.    | Fig. | Description                                  | Plating | 1      | 10     | 50     |
|----------|-----------------|----------------|------|--|---------|--------|--------|--------|
| 444824   | Cinch           | SMB50-1301     | 32   | 50Ω jack, straight, PCB mount                | Gold    | \$3.39 | \$3.09 | \$2.89 |
| 659358   | Amphenol Connex | 142186         | 33   | Straight crimp plug (RG-174/188A/316/B7805A) | Gold    | 4.95   | 4.49   | 3.95   |
| 167312   | ValuePro        | 24-12-2TGG-R   | 34   | Right angle jack, PCB mount                  | Gold    | 3.49   | 3.19   | 2.95   |
| 172364   | ValuePro        | 24-07L-1-TGG   | 35   | 50Ω bulkhead crimp jack                      | Gold    | 3.69   | 3.29   | 2.95   |
| 172372   | ValuePro        | 24-05L-1-TGG-R | 36   | 50Ω cable crimp plug                         | Gold    | 2.95   | 2.65   | 2.39   |

SMA Adapters, Couplers & Terminator on next page

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above



## SMA Adapters, Couplers and Terminator



| Part No. | Manufacturer    | Product No. | Fig. | Description                                     | Plating | 1      | 10     | 50     |
|----------|-----------------|-------------|------|---|---------|--------|--------|--------|
| 659032   | Amphenol Connex | 132168      | 1    | 50Ω plug-to-plug adapter                        | Gold    | \$5.95 | \$5.35 | \$4.79 |
| 659041   | Amphenol Connex | 132169      | 2    | 50Ω jack-to-jack adapter                        | Gold    | 5.49   | 4.95   | 4.45   |
| 659059   | Amphenol Connex | 132170      | 3    | 50Ω jack-to-jack adapter, bulkhead feed-through | Gold    | 6.49   | 6.25   | 5.95   |
| 659067   | Amphenol Connex | 132171      | 4    | 50Ω plug-to-jack adapter                        | Gold    | 4.49   | 3.95   | 3.49   |
| 659075   | Amphenol Connex | 132172      | 5    | 50Ω right angle plug-to-jack adapter            | Gold    | 5.95   | 5.49   | 4.95   |
| 659083   | Amphenol Connex | 202112      | 6    | Plug cap  | Nickel  | 1.19   | 1.09   | .95    |
| 161294   | ValuePro        | S-311-G     | 7    | Straight coupler male-male                      | Gold    | 2.95   | 2.65   | 2.39   |
| 161307   | ValuePro        | S-412-G     | 8    | Right angle coupler male-female                 | Gold    | 4.95   | 4.45   | 3.95   |
| 153294   | ValuePro        | SMA-7817    | 9    | Straight coupler female – jack-to-jack          | Gold    | 3.49   | 3.15   | 2.79   |

## SMA/SMB 50Ω Coax Cables



Fig. 1: SMA right angle male to SMA female  
 Fig. 2: SMA male to SMA male  
 Fig. 3: SMA male to SMA right angle male  
 Fig. 4: SMA right angle male to SMA right angle male  
 Fig. 5: SMB plug female to SMB plug female

| Part No. | Cable  | Fig. | Lgth (ft.) | 1      | 10     | 50     |
|----------|--------|------|------------|--------|--------|--------|
| 2099391  | RG-58  | 1    | 0.5        | \$2.95 | \$2.75 | \$2.49 |
| 159371   | RG-58  | 2    | 2          | 4.95   | 4.49   | 3.95   |
| 159397   | RG-58  | 2    | 6          | 5.95   | 5.35   | 4.75   |
| 169801   | RG-174 | 2    | 0.5        | 4.75   | 4.25   | 3.75   |
| 163855   | RG-174 | 2    | 1          | 4.95   | 4.49   | 3.95   |
| 153382   | RG-174 | 2    | 2          | 4.95   | 4.49   | 3.95   |
| 153391   | RG-174 | 2    | 4          | 5.25   | 4.75   | 4.25   |
| 159451   | RG-174 | 2    | 6          | 7.95   | 6.95   | 6.25   |
| 175127   | RG-174 | 3    | 0.5        | 4.95   | 4.49   | 3.95   |
| 175135   | RG-174 | 3    | 1          | 4.95   | 4.49   | 3.95   |
| 175143   | RG-174 | 4    | 0.5        | 4.95   | 4.49   | 3.95   |
| 175152   | RG-174 | 4    | 1          | 5.95   | 5.35   | 4.75   |
| 175178   | RG-174 | 5    | 1          | 4.95   | 4.49   | 3.95   |

## BNC Male Coax Cables



| Part No. | Description   | 1      | 10     | 50     |
|----------|---------------|--------|--------|--------|
| 176794   | 3' BNC to BNC | \$4.95 | \$4.49 | \$3.95 |
| 176815   | 6' BNC to BNC | 5.25   | 4.75   | 4.25   |

## RG59/U 75Ω CATV & Video Patch Cords

| Part No. | Cross Ref. No. | Length (ft.) | 1      | 10     | 50     |
|----------|----------------|--------------|--------|--------|--------|
| 86472    | CRG59-1        | 1.5          | \$2.95 | \$2.49 | \$2.25 |
| 85543    | CRG59-6        | 6            | 4.95   | 4.49   | 3.95   |
| 102373   | CRG59-12       | 12           | 5.25   | 4.75   | 4.25   |
| 262730   | EBC-525        | 25           | 6.95   | 6.25   | 5.49   |
| 262748   | EBC-550        | 50           | 8.95   | 7.95   | 7.25   |
| 262764   | EBC-510        | 100          | 14.95  | 12.95  | 11.95  |

## RG174/U 50Ω Network & Oscilloscope Cables

| Part No. | Description | Length (ft.) | 1      | 10     | 50     |
|----------|-------------|--------------|--------|--------|--------|
| 111473   | RG174U3     | 3            | \$4.95 | \$4.49 | \$3.95 |
| 111482   | RG174U6     | 6            | 6.95   | 6.25   | 5.49   |

## RG58/U 50Ω Network & Oscilloscope Cables

| Part No. | Cross Ref. No. | Length (ft.) | 1      | 10     | 50     |
|----------|----------------|--------------|--------|--------|--------|
| 181308   | CRG58-1RR      | 1            | \$3.95 | \$3.55 | \$3.19 |
| 102315   | CRG58-1        | 1.5          | 3.95   | 3.55   | 3.19   |
| 256743   | CBB-224-24     | 2            | 4.95   | 4.49   | 3.95   |
| 11404    | CRG58-3        | 3            | 4.95   | 4.49   | 3.95   |
| 102331   | CRG58-6        | 6            | 3.95   | 3.55   | 3.19   |
| 180822   | CRG58-10       | 10           | 4.95   | 4.49   | 3.95   |
| 102350   | CRG58-12       | 12           | 4.95   | 4.49   | 3.95   |
| 169818   | CRG58-15       | 15           | 5.95   | 5.35   | 4.75   |
| 102357   | CRG58-25       | 25           | 6.95   | 6.25   | 5.49   |
| 102365   | CRG58-50       | 50           | 9.95   | 8.95   | 7.95   |
| 102381   | CRG58-100      | 100          | 12.95  | 11.49  | 9.95   |

## "F" Connector Patch Cables

### RG-6 75Ω

- For use with cable TV and video

| Part No. | Cross Ref. No. | Length (ft.) | 1      | 10     |
|----------|----------------|--------------|--------|--------|
| 287101   | 205-415BK      | 6            | \$1.95 | \$1.75 |
| 297668   | 205-440BK-GW1B | 75           | 4.95   | 4.49   |

## Fiber Optics



### Fiber Optic Transceivers

| Part No. | Mfr. Part No. | Description                          | 1       | 5       |
|----------|---------------|--------------------------------------|---------|---------|
| 1553336  | HFBR-53A5VEM  | 850nm, SC duplex 3.3V, E shield      | \$94.95 | \$84.95 |
| 1553352  | HFBR-5710LP   | For gigabit ethernet                 | 94.95   | 84.95   |
| 1584722  | HFBR-5701LP   | For gigabit ethernet & fiber channel | 94.95   | 84.95   |

### Miniature Link Package Transmitters

| Part No. | Mfr. Part No. | Description                                | 1       | 5       |
|----------|---------------|--|---------|---------|
| 1584562  | HFBR-1404Z    | SMA, Tx high power                         | \$14.95 | \$13.49 |
| 1552616  | HFBR-1412     | ST, Tx standard power                      | 11.95   | 10.95   |
| 1552624  | HFBR-1412T    | ST, Tx standard power, threaded port       | 11.95   | 10.95   |
| 1552632  | HFBR-1412TM   | ST, Tx standard power, threaded/metal port | 14.95   | 13.49   |
| 1584571  | HFBR-1412Z    | ST, Tx standard power, threaded port       | 14.95   | 13.49   |
| 1552641  | HFBR-1414     | ST, Tx high power                          | 16.95   | 13.95   |
| 1584597  | HFBR-1414TZ   | ST, Tx high power, threaded port           | 12.95   | 11.95   |

### Miniature Link Package Receivers

| Part No. | Mfr. Part No. | Description               | 1       | 5       |
|----------|---------------|---------------------------|---------|---------|
| 1584642  | HFBR-2402Z    | SMA, Rx, 5MBd, TTL output | \$14.95 | \$12.95 |
| 1552894  | HFBR-2412     | ST, Rx, 5MBd, TTL output  | 11.95   | 10.95   |

### Discrete Optical Components

| Part No. | Mfr. Part No. | Description                | 1       | 5       |
|----------|---------------|----------------------------|---------|---------|
| 1552587  | HFBR-1312T    | 32/160 MBd, 5000m, ST      | \$33.95 | \$31.95 |
| 1552595  | HFBR-1312TZ   | 32/160 MBd, 5000m, ST      | 44.95   | 39.95   |
| 1552851  | HFBR-2316T    | 32/160 MBd, 5000/2000m, ST | 35.95   | 32.95   |
| 1552860  | HFBR-2316TZ   | 32/160 MBd, 5000/2000m, ST | 44.95   | 39.95   |



### Versatile Link Package Transmitters

| Part No. | Mfr. Part No. | Description                                     | 1      | 5      |
|----------|---------------|---|--------|--------|
| 1552712  | HFBR-1521     | 5MBd, 20 POF, -40°C to 85°C                     | \$6.95 | \$6.39 |
| 1552739  | HFBR-1523     | 40KbD, 110 POF, -40°C to 85°C                   | 9.95   | 8.95   |
| 1552763  | HFBR-1527     | 32/125MBd, 40/30 POF, 1000/100 HCS, 0°C to 70°C | 9.95   | 8.95   |
| 1552771  | HFBR-1528     | 10MBd, 100 POF, 900 HCS, 40°C to 85°C           | 9.95   | 8.95   |
| 1552798  | HFBR-1532     | 1MBd, 45 POF, 0°C to 70°C                       | 7.95   | 6.95   |

### Versatile Link Package Receiver

| Part No. | Mfr. Part No. | Description               | 1      | 5      |
|----------|---------------|---------------------------|--------|--------|
| 1553109  | HFBR-2532     | 1MBd, 45 POF, 0°C to 70°C | \$6.95 | \$6.39 |

### 2-Channel Enclosed Encoder

| Part No. | Mfr. Part No.  | Description                       | 1       | 5       |
|----------|----------------|-----------------------------------|---------|---------|
| 1584538  | HEDS-9100\$H00 | 2-ch, incremental encoder, 400CPR | \$16.95 | \$15.49 |

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 197.

## 10' Fiber Optic Cable

INDUSTRIAL FIBER OPTICS

- 1000µm core jacketed plastic fiber optic cable (10')

\*Web Code: QAA

| Part No. | Mfr. Part No. | 1      | 10     |
|----------|---------------|--------|--------|
| 171272   | IF-C-E1000    | \$5.95 | \$5.35 |

## Fiber Optic Lab Kit

INDUSTRIAL FIBER OPTICS

- Teaches the fundamentals of fiber
- 9 different activities • Ideal for the lab environment

| Part No. | Mfr. Part No. | 1       | 5       |
|----------|---------------|---------|---------|
| 169914   | IF-LMH        | \$59.95 | \$49.95 |

## 3M Spring Connectors



- 285683: 2#22 to 2#12AWG, orange with blue skirt
- 285691: 2#18 to 2#8 to 5#12 AWG, red w/ yellow skirt
- 285704: 4#14 to 2#6 to 3#8 AWG, blue w/ gray skirt

\* Order in multiples of 10

| Part No. | Mfr. Part No. | 1   | 10     | 100    |
|----------|---------------|-----|--------|--------|
| 285683   | 3M O/B+       | *   | \$ .15 | \$ .12 |
| 285691   | 3M R/Y+       | *   | .15    | .12    |
| 285704   | 3M B/G+       | .39 | .37    | .32    |

## EGE Telecom Splice Connectors

Provides clean, solid and rapid connection of wires to keep lines free of noise



| Part No. | Color  | AWG   | Conductors | 1     | 10    | 100   |
|----------|--------|-------|------------|-------|-------|-------|
| 169747   | Yellow | 22-26 | 2          | \$.25 | \$.22 | \$.15 |
| 169755   | Red    | 19-26 | 3Y         | .29   | .25   | .19   |

## Wire Connectors



- Material: UL approved nylon 66, 94V2
- Strip wire before application • Twist on type
- 182450: Nylon 66, 94-2 UL/CSA approved
- 140717: PE - metal inside

Order in multiples of 10

| Part No. | Description        | 10    | 100   | 1000  |
|----------|--------------------|-------|-------|-------|
| 140717   | Wire IDC 22-18 AWG | \$.09 | \$.07 | \$.05 |
| 182511   | Wire nut 16 AWG    | .09   | .07   | .05   |
| 182450   | Crimp 16-14 AWG    | .19   | .15   | .12   |

\* Requires crimping tool (P/N 72996, pg 91)

\*Wire Caps Available Online — Enter Web Code QBZ

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Call us at  
1-800-831-4242.

## CINCH Double Row Barrier Blocks

- Insulation: molded mono block, general purpose phenolic, black, UL94V-1
- Screw material: steel with nickel over copper flash plating
- Solder terminal material: brass w/ electro-tin plating

\*Web Code: YBM

### 140 Series 15A

- 3750-watts/terminal max.
- 16 AWG wire max.
- Size: 0.88"W x 0.41"H
- Screw: 5-40 x 3/16"
- Density: 0.375"



| Part No. | Mfr. P/N | Pos. | Length | 1      | 10    | 100   |
|----------|----------|------|--------|--------|-------|-------|
| 230973   | 2-140    | 2    | 1.41"  | \$1.09 | \$.85 | \$.75 |
| 230981   | 3-140    | 3    | 1.78"  | 1.49   | 1.35  | 1.19  |
| 230990   | 4-140    | 4    | 2.16"  | 1.79   | 1.49  | 1.29  |
| 231001   | 5-140    | 5    | 2.53"  | 1.89   | 1.59  | 1.39  |
| 231010   | 6-140    | 6    | 2.91"  | 2.19   | 1.69  | 1.49  |
| 231028   | 7-140    | 7    | 3.28"  | 1.49   | 1.35  | 1.19  |
| 231036   | 8-140    | 8    | 3.66"  | 2.89   | 2.49  | 2.09  |
| 231052   | 10-140   | 10   | 4.41"  | 3.49   | 2.89  | 2.39  |
| 231061   | 12-140   | 12   | 5.16"  | 4.49   | 3.95  | 3.49  |
| 1775983  | 14-140   | 14   | 5.91"  | 4.59   | 3.39  | 3.09  |

### 141 Series 20A

- 5000-watts/terminal max.
- 14 AWG wire max.
- Size: 1.13"W x 0.5"H
- Screw: 6-32 x 1/4" • Density: 0.438"



| Part No. | Mfr. P/N | Pos. | Length | 1      | 10     | 100   |
|----------|----------|------|--------|--------|--------|-------|
| 2100021  | 3-141    | 3    | 1.78"  | \$1.39 | \$1.19 | \$.99 |
| 231378   | 4-141    | 4    | 2.50"  | 1.69   | 1.49   | 1.35  |
| 231394   | 6-141    | 6    | 3.38"  | 2.35   | 1.89   | 1.59  |
| 231415   | 8-141    | 8    | 4.25"  | 2.95   | 2.59   | 2.29  |
| 231431   | 10-141   | 10   | 5.13"  | 3.39   | 2.89   | 2.39  |
| 231440   | 12-141   | 12   | 6.00"  | 3.59   | 3.29   | 2.95  |

### 142 Series 30A

- 7500-watts/terminal max.
- 10 AWG wire max.
- Size: 1.312"W x 0.625"H
- Screw: 8-32 x 5/16" • Density: 0.563"



| Part No. | Mfr. P/N | Pos. | Length | 1      | 10     | 100    |
|----------|----------|------|--------|--------|--------|--------|
| 440891   | 8-142    | 8    | 5.47"  | \$4.95 | \$4.49 | \$3.95 |

### Terminal Block Jumpers

For connecting between adjacent terminals or alternate terminals.

- 2-position • Brass w/ nickel plating



| Part No. | Mfr. Part No.       | 1     | 10    | 100   |
|----------|---------------------|-------|-------|-------|
| 659382   | 140J-1 (140 series) | \$.25 | \$.22 | \$.19 |
| 448500   | 141J (141 series)   | .35   | .29   | .25   |

## JAMECO ValuePro European Terminal Blocks

- Number of poles: 12
- Terminal insert: brass metal alloy, nickel plated
- Material: polyamide 66 (nylon 66), UL94V-2, natural
- Screws: zinc plated, yellow chromed

\*Web Code: CBJ

| Part No. | Cross Ref.   | Amps  | AWG   | 1      | 10     | 100    |
|----------|--------------|-------|-------|--------|--------|--------|
| 2120161  | ES0800/12DS  | * 10A | 16-20 | \$1.29 | \$1.19 | \$1.05 |
| 2120170  | ES01000/12DS | * 20A | 12-20 | 1.39   | 1.29   | 1.15   |
| 215011   | PA8HDS       | †     | 20A   | 1.59   | 1.39   | 1.19   |
| 215029   | PA10HDS      | †     | 30A   | 1.95   | 1.79   | 1.59   |
| 215037   | PA12HDS      | †     | 35A   | 2.49   | 2.25   | 2.09   |

\* 300V † 450V

## Metric Double Row Terminal Blocks

JAMECO ValuePro

- Body: black thermoplastic (UL94V-0)
- Terminals: brass tin plated
- Screws: steel nickel plated
- 12-18 AWG



207572

\*Web Code: SBG

### 10A @ 600V

- Screw size: M3.0 • Size: 19.5mm W x 11.9mm H

| Part No. | Cross Ref. | Pos. | Lgth (mm) | 1     | 10    | 100   |
|----------|------------|------|-----------|-------|-------|-------|
| 208857   | GGE-10-4P  | 4    | 55        | \$.95 | \$.75 | \$.69 |
| 208865   | GGE-10-6P  | 6    | 74        | 1.29  | 1.15  | .99   |
| 208873   | GGE-10-8P  | 8    | 102.5     | 1.59  | 1.45  | 1.29  |
| 208900   | GGE-10-10P | 10   | 112       | 2.09  | 1.89  | 1.75  |
| 208882   | GGE-10-12P | 12   | 131       | 2.29  | 2.09  | 1.89  |

### 20A @ 600V

- Screw size: M3.5 • Size: 22.0mm W x 13.2mm H

| Part No. | Cross Ref. | Pos. | Lgth (mm) | 1     | 10    | 100   |
|----------|------------|------|-----------|-------|-------|-------|
| 207538   | GGE-20-4P  | 4    | 63.5      | \$.89 | \$.79 | \$.65 |
| 207547   | GGE-20-6P  | 6    | 85.3      | 1.59  | 1.39  | 1.25  |
| 207554   | GGE-20-8P  | 8    | 107.1     | 1.79  | 1.59  | 1.45  |
| 207563   | GGE-20-10P | 10   | 128.9     | 2.19  | 1.95  | 1.85  |
| 207572   | GGE-20-12P | 12   | 150.7     | 2.95  | 2.59  | 2.29  |

## KULKA® Double Row Terminal Block

- Base: general purpose phenolic; 150°C
- Screws: #6-32, binder head, phillips-slot
- Terminals: brass plated .437" (11 mm) centers
- 1100Vrms; 20A ratings; for 14-16 AWG wires
- Open block design
- Size: 1.12"W x 0.5"H



| Part No. | Mfr. Part No. | Pos. | Length | 1      | 10     |
|----------|---------------|------|--------|--------|--------|
| 188672   | 601GP8        | 8    | 4.25"  | \$3.95 | \$3.49 |

## molex® BEAU Terminal Blocks

- 0.375" double row
- Wire AWG range: 12-24AWG
- Terminal: brass, nickel plated
- Insulator: thermoplastic, UL94V-0
- Screws: #6-32 steel, zinc chromate plate



| Part No. | Mfr. Part No. | Beau No. | Pos. | 1      | 10     | 100   |
|----------|---------------|----------|------|--------|--------|-------|
| 659391   | 38770-0102    | 77002    | 2    | \$1.29 | \$1.15 | \$.99 |
| 659411   | 38770-0104    | 77004    | 4    | 1.95   | 1.79   | 1.59  |
| 659454   | 38770-0108    | 77008    | 8    | 2.49   | 2.25   | 1.95  |
| 659489   | 38770-0112    | 77012    | 12   | 3.95   | 3.49   | 2.95  |

OST

## DIN Rail-Mounted Terminal Block & DIN Rail

- Molded thermoplastic
- 12-22 AWG
- Spacing: 5.06mm (.199")
- UL rated voltage and current: 600V @ 20A



248736  
Sold in 1 meter (39") length

| Part No. | Mfr. Part No. | Type       | 1     | 10    | 100   |
|----------|---------------|------------|-------|-------|-------|
| 237083   | 41296.2       | SR2.5      | \$.89 | \$.79 | \$.69 |
| 248736   | 2094.0(IM)    | TS35 x 7.5 | 6.95  | 6.29  | 5.49  |

\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above



## Terminal Blocks

NEW  
MARKED IN PINK• For detailed specifications, please see our website at [www.Jameco.com](http://www.Jameco.com)

★ Web Code: XBD

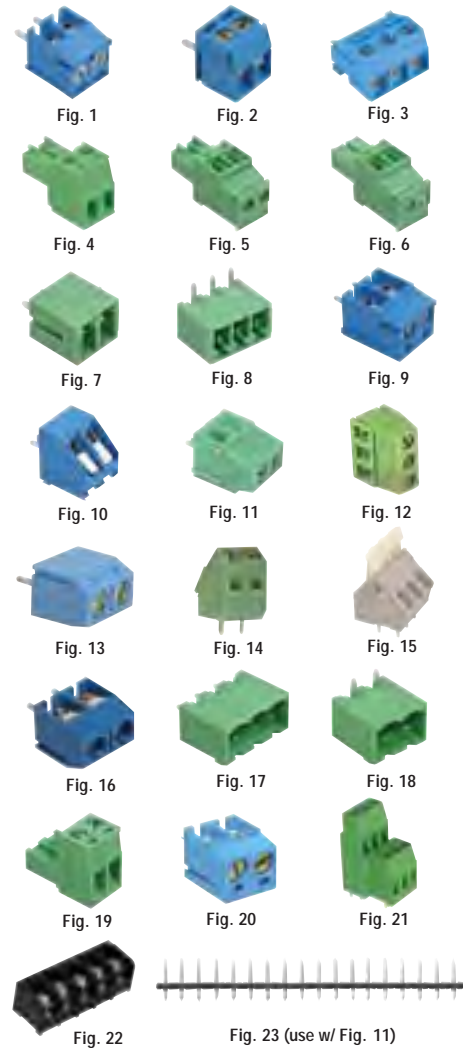
| Part No. | Mfr.     | Mfr. Part No. | Fig. | Term. | Terminal Spacing | Description     | 1     | 10    | 100   |
|----------|----------|---------------|------|-------|------------------|-----------------|-------|-------|-------|
| 2094506  | OST      | OSTTE020161R  | 1    | 2     | 0.138"/3.5mm     | Top screw       | \$.29 | \$.25 | \$.19 |
| 2094522  | OST      | OSTTF020161R  | 2    | 2     | 0.138"/3.5mm     | Side screw      | .35   | .29   | .25   |
| 2120680  | OST      | OSTEH022160R  | 3    | 2     | 0.138"/3.5mm     | Top screw       | .49   | .45   | .39   |
| 2094514  | OST      | OSTTE030161R  | 1    | 3     | 0.138"/3.5mm     | Top screw       | .39   | .35   | .29   |
| 2094531  | OST      | OSTTF030161R  | 2    | 3     | 0.138"/3.5mm     | Side screw      | .49   | .45   | .39   |
| 2120698  | OST      | OSTEH032160R  | 3    | 3     | 0.138"/3.5mm     | Top screw       | .75   | .69   | .65   |
| 2094565  | OST      | OSTTJ0231530R | 4    | 2     | 0.150"/3.81mm    | R/A screw       | .65   | .59   | .55   |
| 2094602  | OST      | OSTTS02315A   | 5    | 2     | 0.150"/3.81mm    | Top screw       | .65   | .59   | .55   |
| 2094629  | OST      | OSTTS02315B   | 6    | 2     | 0.150"/3.81mm    | Top screw       | .65   | .59   | .55   |
| 2094645  | OST      | OSTTOQ023250R | 7    | 2     | 0.150"/3.81mm    | Vertical header | .25   | .22   | .15   |
| 2094661  | OST      | OSTTOQ023251R | 8    | 2     | 0.150"/3.81mm    | R/A header      | .25   | .22   | .15   |
| 2094573  | OST      | OSTTJ0331530R | 4    | 3     | 0.150"/3.81mm    | R/A screw       | .95   | .85   | .75   |
| 2094611  | OST      | OSTTS03315A   | 5    | 3     | 0.150"/3.81mm    | Top screw       | .95   | .85   | .75   |
| 2094637  | OST      | OSTTS03315B   | 6    | 3     | 0.150"/3.81mm    | Top screw       | .95   | .85   | .75   |
| 2094653  | OST      | OSTTOQ033250R | 7    | 3     | 0.150"/3.81mm    | Vertical header | .35   | .29   | .25   |
| 2094670  | OST      | OSTTOQ033251R | 8    | 3     | 0.150"/3.81mm    | R/A header      | .35   | .29   | .25   |
| 2120621  | OST      | OSTTB020161R  | 2    | 2     | 0.197"/5mm       | Side screw      | .35   | .29   | .25   |
| 2094485  | OST      | OSTTA020161R  | 9    | 2     | 0.197"/5mm       | Top screw       | .29   | .25   | .19   |
| 2094549  | OST      | OSTTG0201600R | 10   | 2     | 0.197"/5mm       | 45° angle screw | .39   | .35   | .29   |
| 160785   | Dinkle   | EK500V-02P    | 11   | 2     | 0.197"/5mm       | Top screw       | .59   | .55   | .45   |
| 164794   | OST      | OSTTH020160R  | 3    | 2     | 0.197"/5mm       | Top screw       | .65   | .59   | .49   |
| 99427    | Dinkle   | 128V2P-R      | 12   | 2     | 0.197"/5mm       | Top screw       | .79   | .59   | .49   |
| 189676   | OST      | OSTTC020162R  | 13   | 2     | 0.197"/5mm       | Top screw       | .79   | .59   | .49   |
| 161067   | Dinkle   | EK500A-02P    | 14   | 2     | 0.197"/5mm       | 45° angle screw | .85   | .75   | .55   |
| 2120735  | OST      | OSTHT020080R  | 15   | 2     | 0.197"/5mm       | 45° angle screw | .69   | .65   | .59   |
| 2120639  | OST      | OSTTB030161R  | 2    | 3     | 0.197"/5mm       | Side screw      | .49   | .45   | .39   |
| 2094493  | OST      | OSTTA030161R  | 9    | 3     | 0.197"/5mm       | Top screw       | .39   | .35   | .29   |
| 2094557  | OST      | OSTTG0301600R | 10   | 3     | 0.197"/5mm       | 45° angle screw | .59   | .55   | .49   |
| 2081203  | Dinkle   | ED500V-3P     | 16   | 3     | 0.197"/5mm       | Top screw       | .69   | .59   | .45   |
| 189668   | OST      | OSTTC030162R  | 13   | 3     | 0.197"/5mm       | Top screw       | .89   | .79   | .69   |
| 99398    | Dinkle   | DT128V3P      | 12   | 3     | 0.197"/5mm       | Top screw       | .95   | .89   | .79   |
| 160793   | Dinkle   | EK500V-03P    | 11   | 3     | 0.197"/5mm       | Top screw       | .95   | .89   | .79   |
| 164806   | OST      | OSTTH030160   | 3    | 3     | 0.197"/5mm       | Top screw       | .95   | .89   | .79   |
| 161059   | Dinkle   | EK500A-03P    | 14   | 3     | 0.197"/5mm       | 45° angle screw | 1.15  | .95   | .85   |
| 2120743  | OST      | OSTHT030080R  | 15   | 3     | 0.197"/5mm       | 45° angle screw | .95   | .85   | .75   |
| 2094477  | OST      | OSTOP240200R  | 23   | 24    | 0.197"/5mm       | 1.3 x 1.0mm     | 1.19  | 1.09  | .95   |
| 164815   | OST      | OSTOP240000R  | 23   | 24    | 0.197"/5mm       | 1.3 x 1.3mm     | 1.59  | 1.39  | 1.19  |
| 2120567  | OST      | OSTYC022150R  | 11   | 2     | 0.200"/5.08mm    | Top screw       | .45   | .39   | .35   |
| 2094688  | OST      | OSTOQ025450R  | 17   | 2     | 0.200"/5.08mm    | Vertical header | .25   | .22   | .15   |
| 2094709  | OST      | OSTOQ025451R  | 18   | 2     | 0.200"/5.08mm    | Vertical header | .25   | .22   | .15   |
| 2120647  | OST      | OSTTC022162R  | 1    | 2     | 0.200"/5.08mm    | Top screw       | .29   | .25   | .19   |
| 2094581  | OST      | OSTTJ025153R  | 19   | 2     | 0.200"/5.08mm    | Top screw       | .65   | .59   | .55   |
| 152347   | OST      | OSTTA024163R  | 20   | 2     | 0.200"/5.08mm    | Top screw       | .65   | .55   | .45   |
| 2094696  | OST      | OSTOQ035450R  | 17   | 3     | 0.200"/5.08mm    | Vertical header | .29   | .25   | .19   |
| 2094717  | OST      | OSTOQ035451R  | 18   | 3     | 0.200"/5.08mm    | Vertical header | .29   | .25   | .19   |
| 2120575  | OST      | OSTYC032150R  | 11   | 3     | 0.200"/5.08mm    | Top screw       | .55   | .49   | .45   |
| 2120655  | OST      | OSTTC032162R  | 1    | 3     | 0.200"/5.08mm    | Top screw       | .39   | .35   | .29   |
| 152355   | OST      | OSTTA034163R  | 20   | 3     | 0.200"/5.08mm    | Top screw       | .49   | .45   | .39   |
| 2094590  | OST      | OSTTJ035153R  | 19   | 3     | 0.200"/5.08mm    | Top screw       | .89   | .79   | .69   |
| 249084   | OST      | EDZA750/30    | 21   | 3     | 0.200"/5.08mm    | Top screw       | 2.19  | 1.95  | 1.75  |
| 276672   | Buchanan | 6PCV-05-006   | 22   | 6     | 0.375"/9.53mm    | Top screw       | 1.49  | 1.29  | 1.15  |

Ⓢ Blue Part No. = Limited Quantity Available

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## 3M Electrical Connector Kit

• 79 pieces

| Part No. | 1      | 10     |
|----------|--------|--------|
| 651954   | \$9.95 | \$8.95 |

## 171-Pc. Solderless Terminal Kit

170 Terminals and Connectors!

- Clear, hinged plastic box
- Use crimping tool P/N 72996, pg 91

| Qty. | Description | Wire Gauge | Blade Size | Qty. | Description | Wire Gauge | Blade Size |
|------|-------------|------------|------------|------|-------------|------------|------------|
| 10   | Male spade  | 22-16      | 1/4"       | 10   | Ring term.  | 16-14      | #10        |
| 10   | Male spade  | 16-14      | 1/4"       | 5    | Ring term.  | 12-10      | #10        |
| 10   | Fem. spade  | 22-16      | 1/4"       | 5    | Ring term.  | 12-10      | #14        |
| 10   | Fem. spade  | 16-14      | 1/4"       | 10   | Spade term. | 16-22      | #6         |
| 10   | Ring term.  | 22-16      | #6         | 10   | Spade term. | 16-22      | #8         |
| 10   | Ring term.  | 22-16      | #8         | 10   | Spade term. | 16-14      | #10        |
| 10   | Ring term.  | 16-14      | #10        | 10   | Butt conn.  | 16-22      | —          |
| 15   | Ring term.  | 16-14      | #6         | 10   | Butt conn.  | 16-14      | —          |
| 10   | Ring term.  | 16-14      | #8         | 5    | Butt conn.  | 12-10      | —          |

| Part No. | Product No. | 1       | 10      | 25      |
|----------|-------------|---------|---------|---------|
| 10990    | G1C175-R    | \$14.95 | \$13.49 | \$11.95 |

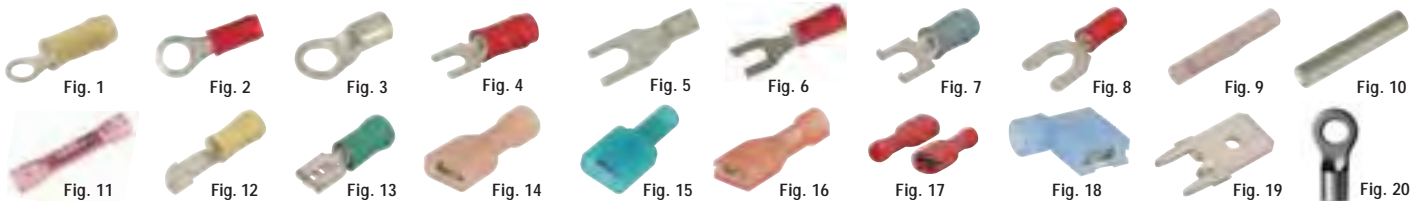
Ⓢ RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 197.





## Terminals, Splices and Quick Connect/Disconnect

★ Web Code: TSQ



### Ring Tongue Terminals

\* Order in multiples of 10

| Part No. | Mfr.    | Product No. | Fig. | Insul.   | Stud Size | AWG   | Color  | 1         | 10     | 100    |
|----------|---------|-------------|------|----------|-----------|-------|--------|-----------|--------|--------|
| 302594   | AMP     | 323912      | 1    | Nylon    | #2        | 26-22 | Yellow | ..... *   | \$ .19 | \$ .15 |
| 302658   | AMP     | 31880       | 1    | Nylon    | #4        | 22-16 | Red    | ..... .25 | .22    | .15    |
| 302666   | AMP     | 36152       | 2    | Plastic  | #6        | 22-16 | Red    | ..... .25 | .22    | .15    |
| 103684   | Various | 2048        | 2    | Plastic  | #6        | 22-16 | Red    | ..... *   | .12    | .09    |
| 302674   | AMP     | 31890       | 2    | Plastic  | #8        | 22-16 | Red    | ..... *   | .19    | .15    |
| 844220   | AMP     | 34104       | 3    | Uninsul. | #4        | 22-16 | —      | ..... *   | .15    | .12    |
| 844289   | AMP     | 34107       | 3    | Uninsul. | #6        | 22-16 | —      | ..... *   | .15    | .12    |
| 844377   | AMP     | 34111       | 3    | Uninsul. | #8        | 22-16 | —      | ..... *   | .15    | .12    |
| 844406   | AMP     | 34112       | 3    | Uninsul. | #10       | 22-16 | —      | ..... *   | .15    | .12    |
| 302720   | AMP     | 320619      | 1    | Nylon    | #6        | 16-14 | Blue   | ..... *   | .15    | .12    |
| 302746   | AMP     | 36160       | 1    | Nylon    | #10       | 16-14 | Blue   | ..... *   | .15    | .12    |
| 302754   | AMP     | 321045      | 1    | Nylon    | #1/4      | 16-14 | Blue   | ..... .25 | .22    | .17    |
| 302797   | AMP     | 35108       | 1    | Nylon    | #8        | 12-10 | Yellow | ... .25   | .22    | .17    |
| 302800   | AMP     | 35109       | 1    | Nylon    | #10       | 12-10 | Yellow | ... .25   | .22    | .17    |
| 847560   | AMP     | 36158       | 1    | Nylon    | #6        | 16-14 | Blue   | ..... .25 | .22    | .17    |
| 302738   | AMP     | 320565      | 2    | Nylon    | #8        | 16-14 | Blue   | ..... .25 | .22    | .17    |

### Spade Tongue Terminals

\* Order in multiples of 10

| Part No. | Mfr.    | Product No. | Fig. | Insul.   | Stud Size | AWG   | Color  | 1         | 10     | 100    |
|----------|---------|-------------|------|----------|-----------|-------|--------|-----------|--------|--------|
| 302851   | AMP     | 328394      | 4    | Nylon    | #2        | 22-16 | Red    | .. \$ .25 | \$ .22 | \$ .17 |
| 302869   | AMP     | 327717      | 4    | Nylon    | #4        | 22-16 | Red    | .... .25  | .22    | .17    |
| 302877   | AMP     | 34541       | 4    | Nylon    | #6        | 22-16 | Red    | .... .25  | .22    | .17    |
| 103588   | Various | SVS1-3.7    | 4    | Vinyl    | #6        | 22-16 | Red    | ..... *   | .12    | .09    |
| 302885   | AMP     | 32053       | 4    | Nylon    | #8        | 22-16 | Red    | .... .35  | .29    | .25    |
| 842929   | AMP     | 323127      | 5    | Uninsul. | #6        | 22-16 | —      | ..... .25 | .22    | .17    |
| 502879   | Molex   | 19144-0001  | 6    | PVC      | #5-6      | 18-22 | Red    | .... .25  | .22    | .17    |
| 302906   | AMP     | 35559       | 4    | Nylon    | #6        | 16-14 | Blue   | .... .25  | .22    | .17    |
| 302914   | AMP     | 32059       | 4    | Nylon    | #8        | 16-14 | Blue   | .... .25  | .22    | .17    |
| 103596   | Various | SVM-2       | 4    | Vinyl    | #8        | 16-14 | Blue   | ..... *   | .15    | .12    |
| 302949   | AMP     | 326859      | 4    | Nylon    | #6        | 12-10 | Yellow | ... .39   | .36    | .33    |
| 302957   | AMP     | 32588       | 4    | Nylon    | #8        | 12-10 | Yellow | ... .39   | .35    | .29    |
| 511265   | AMP     | 19144-0043  | 4    | PVC      | #10       | 12-10 | Yellow | ... .25   | .22    | .17    |
| 502801   | AMP     | 19141-0085  | 4    | Uninsul. | #10       | 12-10 | —      | ..... *   | .12    | .09    |

### Flanged Spade Tongue Terminals

| Part No. | Mfr. | Mfr. Part No. | Fig. | Insul. | Stud Size | AWG   | Color | 1         | 10     | 100    |
|----------|------|---------------|------|--------|-----------|-------|-------|-----------|--------|--------|
| 302973   | AMP  | 324608        | 7    | PVC    | #2        | 22-16 | Red   | .. \$ .29 | \$ .25 | \$ .19 |
| 303010   | AMP  | 320862        | 7    | Nylon  | #8        | 16-14 | Blue  | .... .25  | .22    | .17    |

### Short Spring Spade Tongue Terminals

\* Order in multiples of 10

| Part No. | Mfr. | Mfr. Part No. | Fig. | Insul. | Stud Size | AWG   | Color  | 1       | 10  | 100 |
|----------|------|---------------|------|--------|-----------|-------|--------|---------|-----|-----|
| 303087   | AMP  | 52930         | 8    | Nylon  | #8        | 22-16 | Red    | ..... * | .17 | .15 |
| 303132   | AMP  | 52941         | 8    | Nylon  | #6        | 12-10 | Yellow | ... *   | .17 | .15 |
| 303141   | AMP  | 52942         | 8    | Nylon  | #8        | 12-10 | Yellow | ... .29 | .25 | .22 |
| 303159   | AMP  | 52943         | 8    | Nylon  | #10       | 12-10 | Yellow | ... .29 | .25 | .19 |

### Spade Solderless Terminal Noninsulated

Order in multiples of 10

| Part No. | Mfr.  | Mfr. Part No. | Fig. | AWG   | Material | Width (in.) | 10    | 100    | 1000          |
|----------|-------|---------------|------|-------|----------|-------------|-------|--------|---------------|
| 502705   | Molex | 19141-0022    | 20   | 18-22 | Copper   | 0.326       | ..... | \$ .15 | \$ .12 \$ .09 |

## Solderless Terminal Crimping Tool

- Crimps solderless terminals: 18-22 AWG red, 14-16 AWG blue and 10-12 AWG yellow



| Part No. | Mfr.  | Part No. | Size          | 1     | 10      | 25              |
|----------|-------|----------|---------------|-------|---------|-----------------|
| 72996    | HT303 |          | 9.0"L x 2.0"W | ..... | \$22.49 | \$18.95 \$14.49 |

### Butt & Knife Disconnect Splices

\* Order in multiples of 10

| Part No. | Mfr.  | Mfr. Part No. | Fig. | Insul.   | Type  | AWG   | Color   | 1         | 10     | 100    |
|----------|-------|---------------|------|----------|-------|-------|---------|-----------|--------|--------|
| 303167   | AMP   | 323994        | 9    | Nylon    | Butt  | 24-20 | Natural | .. \$ .49 | \$ .45 | \$ .39 |
| 303175   | AMP   | 320559        | 9    | Nylon    | Butt  | 22-16 | Red     | ..... .55 | .49    | .45    |
| 494469   | Molex | 19215-0009    | 10   | Uninsul. | Butt  | 22-18 | —       | .....     | .15    | .12    |
| 491305   | Molex | 19164-0013    | 11   | NiAC     | Butt  | 22-18 | Red     | ..... .45 | .39    | .35    |
| 503062   | Molex | 19154-0004    | 9    | PVC      | Butt  | 18-22 | Red     | ..... *   | .15    | .12    |
| 303183   | AMP   | 320562        | 9    | Nylon    | Butt  | 16-14 | Blue    | ..... .55 | .49    | .45    |
| 511530   | AMP   | 19154-0030    | 9    | PVC      | Butt  | 12-10 | Natural | .... *    | .17    | .15    |
| 303221   | Molex | 35762         | 12   | Nylon    | Knife | 12-10 | Yellow  | ....      | .99    | .89    |

### Quick Connect/Disconnect Female Terminals

\* Order in multiples of 10

| Part No. | Mfr.    | Product No. | Fig. | Insul. | Size (ins.) | AWG   | Color  | 1         | 10     | 100    |
|----------|---------|-------------|------|--------|-------------|-------|--------|-----------|--------|--------|
| 303280   | AMP     | 640903-1    | 13   | Nylon  | .250 x .032 | 22-18 | Red    | .. \$ .25 | \$ .22 | \$ .15 |
| 489627   | Molex   | 19003-0001* | 14   | Nylon  | .250 x .032 | 22-18 | Red    | ..... *   | .15    | .12    |
| 489475   | Molex   | 19002-0001  | 15   | Nylon  | .250 x .032 | 22-18 | Red    | .... .35  | .29    | .25    |
| 489758   | Molex   | 19005-0001  | 14   | Nylon  | .250 x .032 | 22-18 | Red    | .... .29  | .22    | .15    |
| 303255   | AMP     | 640917-1    | 13   | Nylon  | .187 x .020 | 22-18 | Red    | .... .25  | .22    | .15    |
| 489643   | Molex   | 19003-0017* | 14   | Nylon  | .187 x .032 | 22-18 | Red    | .... .25  | .22    | .15    |
| 461042   | Molex   | 19019-0009  | 13   | Nylon  | .187 x .032 | 22-18 | Red    | .... .29  | .25    | .19    |
| 489635   | Molex   | 19003-0011* | 14   | Nylon  | .187 x .020 | 22-18 | Red    | .... .29  | .22    | .15    |
| 524197   | AMP     | 2-520182-2  | 16   | Nylon  | .187 x .020 | 22-18 | Red    | .... .25  | .22    | .15    |
| 303247   | AMP     | 640923-1    | 13   | Nylon  | .110 x .020 | 22-18 | Red    | .... .25  | .22    | .15    |
| 109112   | Various | GFF1250     | 17   | Vinyl  | .250 x .032 | 22-16 | Red    | .... .25  | .22    | .15    |
| 103668   | Various | FDV1-250    | 13   | Vinyl  | .250 x .032 | 22-16 | Red    | ..... *   | .15    | .12    |
| 106922   | Various | FDV1-187    | 13   | Vinyl  | .187 x .032 | 22-16 | Red    | .... *    | .12    | .09    |
| 303327   | AMP     | 640905-1    | 13   | Nylon  | .250 x .032 | 16-14 | Blue   | .... .25  | .22    | .15    |
| 489766   | Molex   | 19005-0005  | 14   | Nylon  | .250 x .032 | 16-14 | Blue   | .... .25  | .22    | .16    |
| 489678   | Molex   | 19003-0040* | 14   | Nylon  | .250 x .032 | 16-14 | Blue   | ..... *   | .15    | .12    |
| 489871   | Molex   | 19007-0021* | 18   | Nylon  | .250 x .032 | 16-14 | Blue   | .... .35  | .29    | .25    |
| 303301   | AMP     | 640919-1    | 13   | Nylon  | .187 x .020 | 16-14 | Blue   | .... *    | .17    | .15    |
| 489694   | Molex   | 19003-0050* | 14   | Nylon  | .187 x .020 | 16-14 | Blue   | .... .29  | .22    | .15    |
| 1963811  | Molex   | 19003-0055  | 17   | Nylon  | .187 x .020 | 16-14 | Blue   | .... .29  | .25    | .19    |
| 303298   | AMP     | 640929-1    | 13   | Nylon  | .110 x .020 | 16-14 | Blue   | .... .25  | .22    | .19    |
| 303343   | AMP     | 640907-1    | 13   | Nylon  | .250 x .032 | 12-10 | Yellow | ... .35   | .29    | .25    |
| 489774   | Molex   | 19005-0010  | 14   | Nylon  | .250 x .032 | 10-12 | Yellow | ... .35   | .29    | .25    |

\* Translucent

### Quick Connect/Disconnect Male Terminals Insulated

| Part No. | Mfr.  | Mfr. Part No. | Fig. | Insul. | Size (ins.) | AWG   | Color | 1         | 10     | 100    |
|----------|-------|---------------|------|--------|-------------|-------|-------|-----------|--------|--------|
| 489723   | Molex | 19004-0001    | 15   | Nylon  | .250 x .032 | 22-18 | Red   | .. \$ .29 | \$ .25 | \$ .19 |
| 489432   | Molex | 19001-0003    | 15   | Nylon  | .187 x .020 | 22-18 | Red   | .... .35  | .29    | .25    |
| 489731   | Molex | 19004-0005    | 15   | Nylon  | .250 x .032 | 16-14 | Blue  | .... .29  | .25    | .19    |

### Printer Circuit Board Male Quick Connect

Order in multiples of 10

| Part No. | Mfr. | Mfr. Part No. | Fig. | Material   | Size (ins.) | 10    | 100    | 1000          |
|----------|------|---------------|------|------------|-------------|-------|--------|---------------|
| 853927   | AMP  | 63824-1       | 19   | Tin/Copper | .250 x .032 | ..... | \$ .09 | \$ .08 \$ .07 |

## Solderless Terminal/Quick Connect Cable Assembly

- 2100056: #6 stud ring tongue terminal 22-16 AWG (fig. 1) and #6 stud spade tongue terminal 22-16 AWG (fig. 4)
- 2100081: #6 stud spade tongue terminal 22-16 AWG (fig. 4) and .250" quick connect/disconnect connector 22-16 AWG (fig. 14)
- 2100099: Dual cable, .250" quick connect/disconnect connector 22-16 AWG and .110" quick connect/disconnect connector 22-16 AWG (fig. 14)



| Part No. | Product No. | Wire                   | Length | 1     | 10     | 100    | 1000          |
|----------|-------------|------------------------|--------|-------|--------|--------|---------------|
| 2100056  | STCA-11     | 18 AWG (green)         | 11"    | ..... | \$ .59 | \$ .45 | \$ .39 \$ .35 |
| 2100081  | STQC-13     | 18 AWG (green)         | 13"    | ..... | .69    | .55    | .49 .45       |
| 2100099  | QCDC-39     | 18 AWG (black & white) | 39"    | ..... | .89    | .65    | .59 .49       |

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

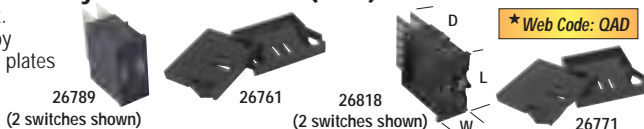
# Binary, Basic & Snap Switches

3 LEVELS OF SAVINGS  
NAME BRANDS HOUSE BRANDS FACTORY OVERRUN

JAMECO ValuePro

## Binary Coded Decimal (BCD) Switches

- Contact resistance: 100mΩ max.
- Contacts: gold plated BE-CU alloy
- Front snap-tab mounting w/ end plates
- Continuous load: 1 amp max.
- 28VDC @ 0.15A



| Part No. | Manufacturer | Cross Ref. No. | Description              | Dimensions (L" x W" x D") | Character Height | Pricing |        |        |
|----------|--------------|----------------|--------------------------|---------------------------|------------------|---------|--------|--------|
|          |              |                |                          |                           |                  | 1       | 10     | 100    |
| 26789    | ValuePro     | GPF311221      | 10-position pushbutton   | 1.2 x 0.3 x 1.7           | 0.19"            | \$4.49  | \$3.95 | \$3.59 |
| 26761    | ValuePro     | PF31E10        | End plates for 26789 (2) | 1.2 x 0.2 x 1.1           | —                | .95     | .85    | .75    |
| 26818    | ValuePro     | GTF311211      | 10-position thumbwheel   | 1.2 x 0.3 x 1.9           | 0.25"            | 4.49    | 3.95   | 3.59   |
| 26771    | ValuePro     | TF31E10        | End plate for 26818 (2)  | 1.2 x 0.2 x 1.3           | —                | .95     | .85    | .75    |

JAMECO ValuePro

## Mini Pushbutton BCD Switch

- Operating temperature: -10°C to +65°C
- 28VDC @ 10A
- Break before make
- Switches snap together
- Positive logic ("0" all open output)
- Size L = 0.59", W = 0.30", S = 1"
- Character height: 0.12"



| Part No. | Cross Ref. | Description     | 1      | 10     | 100    |
|----------|------------|-----------------|--------|--------|--------|
| 136558   | MX061      | 10-position ... | \$2.95 | \$2.59 | \$2.29 |

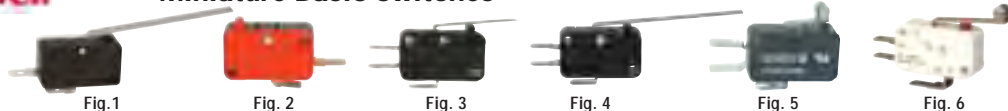
★ Web Code: UEM

HIGHLY

OMRON Honeywell

## Miniature Basic Switches

- 3 terminals: common; normally open; normally closed
- Size: 1.10"L x 0.40"W x 0.63"H



| Part No. | Manufacturer    | Mfr. Part No. | Fig. | Actuator Type             | Contact Form | Contact Rating              | Service Life (Mech./Elec.) | Terminal Type        | Pricing |        |        |
|----------|-----------------|---------------|------|---------------------------|--------------|-----------------------------|----------------------------|----------------------|---------|--------|--------|
|          |                 |               |      |                           |              |                             |                            |                      | 1       | 10     | 100    |
| 1945268  | Zippy           | VM-5          | 1    | Long lever (2.00"L)       | SPST         | 5A @ 125/250VAC             | 10M/1M                     | 0.187" quick connect | \$1.19  | \$0.95 | \$0.75 |
| 2076244  | Honeywell       | V3-23-D8      | 2    | Pin plunger               | SPST-NO      | 5A @ 125VAC                 | 50M/300k                   | 0.183" quick connect | 1.49    | 1.25   | .95    |
| 187792   | Omron           | V-10G2-1C24K  | 3    | Hinge lever (1.08"L)      | SPDT-NC      | 0.1A @ 125VDC, 10A @ 250VAC | 50M/300k                   | 0.183" quick connect | 2.49    | 2.19   | 1.95   |
| 187805   | Omron           | V-10G3-1C24K  | 4    | Long hinge lever (2.01"L) | SPDT-NC      | 0.1A @ 125VDC, 10A @ 250VAC | 50M/300k                   | 0.183" quick connect | 2.19    | 1.95   | 1.75   |
| 617844   | GC Electronics  | 35-880        | 2    | Lever actuator            | SPDT         | 10A @ 125VAC                | 10M/100k                   | 0.187" quick connect | 3.95    | 3.75   | 3.49   |
| 159572   | Highly Electric | VS10N051C     | 5    | Hinge roller (0.60"L)     | SPDT-NC      | 10A @ 125VAC/250VAC         | 10M/100k                   | 0.250" quick connect | 2.95    | 2.59   | 2.29   |
| 159581   | Highly Electric | VS10N021C2    | 3    | Hinge lever (1.05"L)      | SPDT-NC      | 10A @ 125VAC/250VAC         | 10M/100k                   | 0.183" quick connect | 2.49    | 2.19   | 1.95   |
| 483284   | Cherry          | D44CR1RD      | 6    | Hinge lever (1.24"L)      | SPDT         | 10A @ 125/250VAC            | 6k                         | 0.187" quick connect | 2.95    | 2.59   | 2.29   |
| 1917099  | Honeywell       | V7-1C17D8     | 2    | Pin plunger               | SPDT         | 15.1A @ 125/250/277VAC      | 50M/300k                   | 0.183" quick connect | 2.95    | 2.59   | 2.29   |

HIGHLY

Mountain Switch OMRON

## Subminiature Basic Switches

- Economical, subminiature basic switch offers long service life
- Free from overtravel restrictions, permits easy setting
- Lead spacing: A = 0.35"; B = 0.29" • Dimensions: 0.78"L x 0.25"W x 0.40"H

★ Web Code: MBE



| Part No. | Manufacturer    | Mfr. Part No.    | Fig. | Actuator Type            | Contact Form | Contact Rating           | Service Life (Mech./Elec.) | Terminal Type       | Pricing |        |        |
|----------|-----------------|------------------|------|--------------------------|--------------|--------------------------|----------------------------|---------------------|---------|--------|--------|
|          |                 |                  |      |                          |              |                          |                            |                     | 1       | 10     | 100    |
| 188867   | Omron           | D2F-L            | 1    | Hinge lever (0.5"L)      | SPDT-NC      | 3A @ 125VAC, 2A @ 30VDC  | 1M/30k                     | Solder              | \$1.19  | \$1.05 | \$0.95 |
| 187709   | Omron           | SS-5GL           | 2    | Hinge lever (0.6"L)      | SPDT-NC      | 5A @ 125VAC, 3A @ 250VAC | 30M/200k                   | Solder              | 1.59    | 1.35   | 1.15   |
| 187733   | Omron           | SS-5GL2          | 3    | Hinge roller (0.6"L)     | SPDT-NC      | 5A @ 125VAC, 3A @ 250VAC | 30M/200k                   | Solder              | 1.49    | 1.29   | 1.15   |
| 159599   | Highly Electric | SS0505A          | 3    | Hinge roller (0.7"L)     | SPDT-NC      | 5A @ 125VAC, 3A @ 250VAC | 30M/200k                   | Solder              | 1.39    | 1.25   | 1.09   |
| 187717   | Omron           | SS-5GL13         | 4    | Simulated roller lever   | SPDT-NC      | 5A @ 125VAC, 3A @ 250VAC | 30M/200k                   | Solder              | 1.59    | 1.35   | 1.15   |
| 2097678  | Mountain Switch | 61-05-025RR-Q-EV | 3    | Roller lever (0.571"L)   | SPDT-NC      | 5A @ 125VAC/250VAC       | 10M/100k                   | .110" quick connect | 1.25    | 1.09   | .99    |
| 2097651  | Mountain Switch | 61-05-033ST-Q-EV | 2    | Straight lever (0.653"L) | SPDT-NC      | 5A @ 125VAC/250VAC       | 10M/100k                   | .110" quick connect | 1.09    | .95    | .85    |
| 2097627  | Mountain Switch | 61-05-104XX-Q-EV | 5    | Button (no lever)        | SPDT-NC      | 5A @ 125VAC/250VAC       | 10M/100k                   | .110" quick connect | .99     | .89    | .79    |
| 2100048  | Honeywell       | 311SM8094-H4     | 6    | Straight lever (1.31")   | SPDT         | 5A @ 250VAC, 5A @ 30VDC  | 1M/30k                     | .110" quick connect | 2.25    | 1.95   | 1.75   |
| 2100030  | Honeywell       | 311SM8095-H5     | 6    | Straight lever (1.31")   | SPDT         | 5A @ 250VAC, 5A @ 30VDC  | 1M/30k                     | .110" quick connect | 1.95    | 1.75   | 1.59   |
| 2097731  | Mountain Switch | 61-10-060RR-Q-EV | 3    | Roller lever (0.571"L)   | SPDT-NC      | 10.1A @ 125VAC/250VAC    | 10M/100k                   | .110" quick connect | 1.49    | 1.35   | 1.19   |
| 2097715  | Mountain Switch | 61-10-055ST-EV   | 2    | Straight lever (0.653"L) | SPDT-NC      | 10.1A @ 125VAC/250VAC    | 10M/100k                   | Solder              | 1.39    | 1.25   | 1.09   |
| 2097694  | Mountain Switch | 61-10-249XX-Q-EV | 5    | Button (no lever)        | SPDT-NC      | 10.1A @ 125VAC/250VAC    | 10M/100k                   | .110" quick connect | 1.39    | 1.25   | 1.09   |

\* Straight lever with flag actuator

Mountain Switch

## Super Subminiature Snap Switches



| Part No. | Manufacturer    | Mfr. Part No.  | Fig. | Actuator Type              | Contact Form | Contact Rating            | Service Life (Mech./Elec.) | Terminal Type | Pricing |       |       |
|----------|-----------------|----------------|------|----------------------------|--------------|---------------------------|----------------------------|---------------|---------|-------|-------|
|          |                 |                |      |                            |              |                           |                            |               | 1       | 10    | 100   |
| 2097598  | Mountain Switch | 13-03-070ST-EV | 1    | Straight lever (0.433"L)   | SPDT-NC      | 3A @ 125VAC; 0.2A @ 60VDC | 1M/15k                     | PCB           | \$.95   | \$.85 | \$.75 |
| 2097580  | Mountain Switch | 13-03-050ST-EV | 2    | Straight lever (0.551"L)   | SPDT-NC      | 3A @ 125VAC; 0.2A @ 60VDC | 1M/15k                     | PCB           | .95     | .85   | .75   |
| 2097601  | Mountain Switch | 13-03-045SR-EV | 3    | Simulated roller (0.614"L) | SPDT-NC      | 3A @ 125VAC; 0.2A @ 60VDC | 1M/15k                     | PCB           | .95     | .85   | .75   |

## Magnetic Reed Switches

★ Web Code: UBB

- NO (normally open) • Contact form: SPST
- 171872: 500mA @ 100VDC
- 2099340: 500mA @ 180VDC/130VAC
- 2099331: 500mA @ 200VDC 1951342: 1A @ 220VDC



| Part No. | Product No. | Size (L" x D") | Type  | 1     | 10    | 100   |
|----------|-------------|----------------|-------|-------|-------|-------|
| 171872   | MKA14103    | 0.53 x 0.1     | Axial | \$.85 | \$.65 | \$.49 |
| 2099340  | R1-27AAA    | 1.81 x 0.07    | Axial | .99   | .89   | .79   |
| 2099331  | CM15-2025   | 1.36 x 0.15    | SMT   | .99   | .89   | .79   |
| 1951342  | MKC-27103   | 2.24 x 0.1     | Axial | 1.49  | 1.35  | 1.19  |

## Temperature Switch

- SPST-NC (Normally-Closed)
- Operational life: 100,000 cycles
- Temp: 75°C (167°F) • 1.64"L leads
- Contact resis.: 50MΩ or less
- PCB mount • UL/CSA approved



| Part No. | Product No. | Contact Current | Contact Voltage | 1     | 10    | 100   |
|----------|-------------|-----------------|-----------------|-------|-------|-------|
| 159636   | 7AM-202     | 5A              | 120V            | \$.29 | \$.25 | \$.19 |

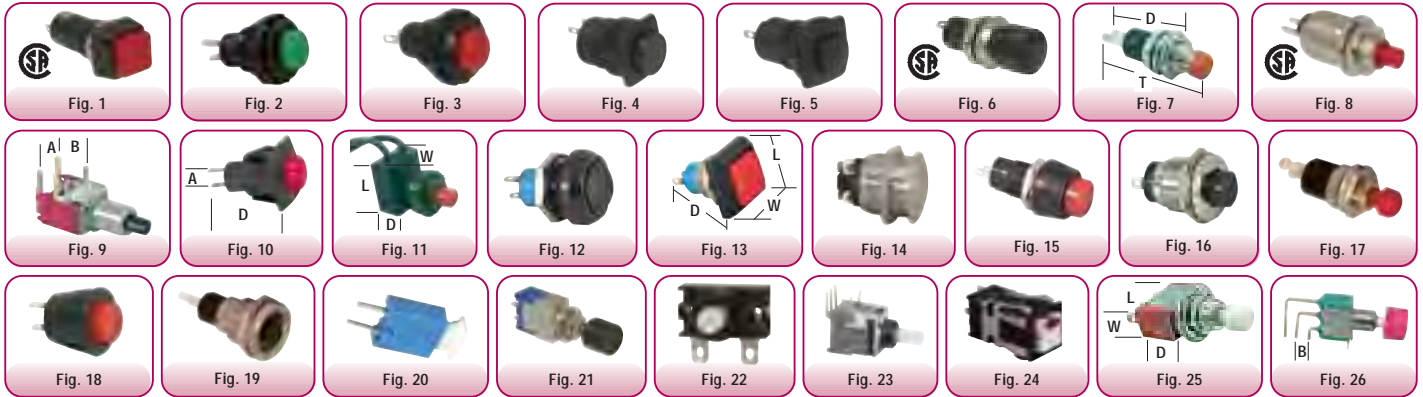
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RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 197.



## Pushbutton Switches

\* Web Code: UBU



| Part No. | Manufacturer    | Product No.      | Fig. | Pins | Mounting Hole Dia. | Contact Form<br>( ) Momentary | Contact Rating | Dimensions<br>(L" x W" x D") | Lead Spacing |      | Terminal Type      | Button Color | Pricing |        |        |
|----------|-----------------|------------------|------|------|--------------------|-------------------------------|----------------|------------------------------|--------------|------|--------------------|--------------|---------|--------|--------|
|          |                 |                  |      |      |                    |                               |                |                              | A"           | B"   |                    |              | 1       | 10     | 100    |
| 315521   | ValuePro        | R13-23B-Y        | 1    | 1    | .480"              | SPST off-on                   | 3A @ 125VAC    | 1.38 (D) x 1.53 (T)          | .18          | —    | Solder             | Yellow       | \$ .95  | \$ .85 | \$ .69 |
| 164523   | Mountain Switch | 1DS466R          | 1    | 2    | .406"              | SPST off-(on)                 | 3A @ 125VAC    | .50 x .50 x .60              | .16          | —    | Solder             | Red          | 2.95    | 2.59   | 2.09   |
| 315484   | ValuePro        | R13-23B-R        | 1    | 2    | .480"              | SPST off-on                   | 3A @ 125VAC    | 1.13 (D) x 1.53 (T)          | .20          | —    | Solder             | Red          | .95     | .85    | .75    |
| 315492   | ValuePro        | R13-23B-B        | 1    | 2    | .480"              | SPST off-on                   | 3A @ 125VAC    | 1.13 (D) x 1.53 (T)          | .20          | —    | Solder             | Black        | .95     | .85    | .75    |
| 315432   | ValuePro        | R13-23A-R        | 1    | 2    | .480"              | SPST off-(on)                 | 3A @ 125VAC    | 1.13 (D) x 1.53 (T)          | .20          | —    | Solder             | Red          | .95     | .85    | .75    |
| 315651   | ValuePro        | R13-502A-05-BB   | 1    | 2    | .500"              | SPST off-(on)                 | 3A @ 125VAC    | .82 (D) x 1.02 (T)           | .23          | —    | Solder             | Black        | 1.75    | 1.49   | 1.25   |
| 315442   | ValuePro        | R13-23A-B        | 1    | 2*   | .480"              | SPST off-(on)                 | 3A @ 125VAC    | 1.13 (D) x 1.53 (T)          | .20          | —    | Solder             | Black        | .95     | .85    | .75    |
| 315678   | ValuePro        | R13-502A-05-BG   | 2    | 2    | .500"              | SPST off-(on)                 | 3A @ 125VAC    | .82 (D) x 1.02 (T)           | .20          | —    | Solder             | Green        | 1.75    | 1.49   | 1.25   |
| 315660   | ValuePro        | R13-502A-05-BR   | 3    | 2    | .500"              | SPST off-(on)                 | 3A @ 125VAC    | .82 (D) x 1.02 (T)           | .22          | —    | 3Solder            | Red          | 1.75    | 1.49   | 1.25   |
| 315791   | ValuePro        | R13-508A-05-BB   | 4    | 2    | .630"              | SPST off-(on)                 | 3A @ 125VAC    | .94 (D) x 1.16 (T)           | .24          | —    | Solder             | Black        | 1.95    | 1.69   | 1.49   |
| 315820   | ValuePro        | R13-508AL-05-BRR | 4    | 4    | .630"              | SPST off-(on)                 | 3A @ 125VAC    | .93 (D) x 1.14 (T)           | .21          | .25  | Solder w/ LED      | Red          | 1.95    | 1.69   | 1.49   |
| 315897   | ValuePro        | R13-511A-05-BB   | 5    | 2    | .500"              | SPST off-(on)                 | 3A @ 125VAC    | .93 (D) x 1.14 (T)           | .23          | —    | Solder             | Black        | 1.95    | 1.69   | 1.49   |
| 315900   | ValuePro        | R13-511A-05-BR   | 5    | 2    | .500"              | SPST off-(on)                 | 3A @ 125VAC    | .93 (D) x 1.14 (T)           | .24          | —    | Solder             | Red          | 1.95    | 1.69   | 1.49   |
| 315599   | ValuePro        | R13-40A-R        | 6    | 2    | .480"              | SPST off-(on)                 | 3A @ 125VAC    | .98 (D) x 1.56 (T)           | .20          | —    | Solder             | Red          | 1.19    | 1.05   | .95    |
| 315580   | ValuePro        | R13-40B-B        | 6    | 2    | .480"              | SPST off-(on)                 | 3A @ 125VAC    | .87 (D) x 1.4 (T)            | .20          | —    | Solder             | Black        | 1.39    | 1.25   | 1.15   |
| 26623    | ValuePro        | MS102            | 7    | 2    | .250"              | SPST off-(on)                 | 3A @ 125VAC    | .65 (D) x 1.10 (T)           | —            | .14  | Solder lugs        | Red          | .59     | .49    | .45    |
| 164566   | Mountain Switch | MS402R           | 8    | 2    | .172"              | SPST off-(on)                 | .5A @ 125VAC   | .60 (D) x .80 (T)            | .08          | —    | Solder             | Red          | 1.95    | 1.69   | 1.49   |
| 315643   | ValuePro        | R13-81-R         | 8    | 2    | .203"              | SPST off-(on)                 | .5A @ 125VAC   | .44 (D) x .78 (T)            | .08          | —    | PC terminal        | Red          | .95     | .85    | .75    |
| 71643    | ValuePro        | SWB210           | 9    | 2    | .219"              | SPST off-(on)                 | 1A @ 120VAC    | .36 x .20 x .33              | .20          | .20  | PC right angle     | Black        | 2.79    | 2.45   | 2.29   |
| 174414   | ValuePro        | R13-510A         | 10   | 2    | .500"              | SPST off-(on)                 | 3A @ 125VAC    | .82 (D) x 1.0 (T)            | —            | .167 | Solder lugs        | Red          | .95     | .85    | .75    |
| 22218    | Judco           | J1882            | 11   | 2*   | .375"              | SPST off-(on)                 | 2A @ 14VDC     | .65 x .52 x .40              | .25          | —    | 5" Pigtail         | Red          | 1.09    | .95    | .85    |
| 171758   | Apem            | IPR3ASAD2        | 12   | 2    | .500"              | SPST off-(on)                 | 2A @ 250VAC    | .76 (D) x 1.0 (T)            | .19          | —    | Solder             | Black        | 14.95   | 13.49  | 11.95  |
| 171766   | Apem            | IPC3ASAD6        | 13   | 2    | .500"              | SPST off-(on)                 | 2A @ 250VAC    | .82 x .69 x .46              | .19          | —    | Solder             | Red          | 14.95   | 13.49  | 11.95  |
| 171774   | Apem            | AV191003C900     | 14   | 2    | .750"              | SPST off-(on)                 | 2A @ 48VDC     | .87 (D) x 1.2 (T)            | .37          | —    | Screw              | Silver       | 13.95   | 12.95  | 11.49  |
| 164494   | Mountain Switch | DS450R           | 15   | 2    | .406"              | SPST off-on                   | 3A @ 125VAC    | .59 (D) x 1.2 (T)            | .175         | —    | Solder             | Red          | 3.95    | 3.49   | 3.19   |
| 164486   | Mountain Switch | DS463R           | 15   | 2    | .406"              | SPST off-(on)                 | 3A @ 125VAC    | .59 (D) x 1.2 (T)            | .175         | —    | Solder             | Red          | 2.95    | 2.59   | 2.09   |
| 164582   | Mountain Switch | DS016B           | 16   | 2    | .469"              | SPST off-(on)                 | 1A @ 125VAC    | .46 (D) x .88 (T)            | .22          | —    | Solder             | Black        | 2.19    | 2.09   | 1.99   |
| 164639   | Mountain Switch | MS3120R          | 17   | 2    | .295"              | SPST off-(on)                 | .5A @ 125VAC   | .31 (D) x 1.1 (T)            | .175         | —    | Solder             | Red          | 1.75    | 1.49   | 1.25   |
| 106112   | Mountain Switch | DS412R           | 18   | 2    | .734"              | SPST off-(on)                 | 3A @ 110VAC    | .66 (D) x .63 (T)            | .275         | —    | Solder lugs        | Red          | 1.75    | 1.49   | 1.25   |
| 164671   | Mountain Switch | NS801M0          | 19   | 2    | .492"              | SPST off-(on)                 | 1A @ 125VAC    | 1.0 (D) x 1.1 (T)            | .213         | —    | Solder terminal    | Black        | 3.95    | 3.49   | 3.19   |
| 26649    | ValuePro        | MS103            | 7    | 2    | .250"              | SPST on-(off)                 | 3A @ 125VAC    | .65 (D) x 1.10 (T)           | —            | .17  | Solder lugs        | Black        | .59     | .49    | .45    |
| 22200    | Judco           | J1881            | 11   | 2*   | .375"              | SPST on-off, Alt <sup>1</sup> | 2A @ 14VDC     | .65 x .52 x .40              | .25          | —    | 5" Pigtail         | White        | 1.29    | 1.15   | 1.05   |
| 172700   | Arctic          | MP1SPSTBLWH      | 20   | 2    | —                  | SPST on-(off)                 | .05A @ 24VDC   | .38 x .20 x .10              | .10          | —    | Solder terminal    | White        | .35     | .29    | .25    |
| 315380   | ValuePro        | PA102A1-B        | 21   | 2    | .250"              | SPST on-(off)                 | 6A @ 125VAC    | 1.2 (D) x 1.7 (T)            | .185         | —    | Solder             | Black        | 1.95    | 1.69   | 1.49   |
| 315388   | ValuePro        | PA101A1-R/BL     | 21   | 2    | .250"              | SPST on-off                   | 6A @ 125VAC    | 1.2 (D) x 1.7 (T)            | .185         | —    | Solder             | Red          | 1.75    | 1.59   | 1.39   |
| 355451   | ValuePro        | J1881            | 22   | 2*   | .375"              | SPST on-off, Alt <sup>1</sup> | 2A @ 14VAC     | .65 x .52 x .40              | .25          | —    | 5" Pigtail         | White        | .75     | .69    | .65    |
| 447072   | Apem            | TP32Y0030050     | 21   | 3    | .250"              | SPST on-on                    | .4A @ 20VAC    | 0.7 (D) x 0.8 (T)            | .11          | —    | Solder             | Black        | .59     | .55    | .49    |
| 200774   | C&K Switch      | TP12SH8AQE       | 23   | 3    | .219"              | SPDT off-(on)                 | 1A @ 120VAC    | .32 x .20 x .33              | .20          | .10  | PC right angle     | Black        | 2.95    | 2.59   | 2.09   |
| 72645    | AlcoSwitch      | TPC11FGR2        | 9    | 3    | .203"              | SPDT off-(on)                 | 1A @ 125VAC    | .32 x .26 x .37              | .20          | .20  | PC right angle     | Red          | 1.49    | 1.29   | 1.09   |
| 1839705  | Honeywell†      | AML22CBC2AA      | 24   | 5    | .750"              | SPDT (on)-off                 | 3A @ 125VAC    | .80 x .80 x 1.8              | .228         | .177 | Solder             | ††           | 24.95   | 21.95  | 19.95  |
| 202999   | Various         | BB16             | 23   | 3    | .250"              | SPDT on-on                    | .1A @ 28VAC    | .39 x .35 x .35              | .18          | .10  | Solder right angle | White        | .79     | .69    | .59    |
| 596799   | C&K Switch      | U811SHZGE        | 25   | 3    | .250"              | SPDT on-(on)                  | 1A @ 120VAC    | .50 x .27 x .41              | .185         | —    | Solder             | ††           | 1.95    | 1.69   | 1.49   |
| 121305   | ValuePro        | GPB006-WH        | 25   | 3    | .250"              | SPDT on-(on)                  | 1A @ 120VAC    | .52 x .27 x .38              | —            | .185 | Solder lugs        | White        | 3.49    | 3.15   | 2.79   |
| 28063    | ValuePro        | PB126            | 25   | 3    | .250"              | SPDT on-(on)                  | 5A @ 120VAC    | .52 x .28 x .38              | —            | .185 | Solder lugs        | Red          | 3.49    | 3.15   | 2.79   |
| 154878   | Eaton Corp.     | PS11-123         | 26   | 3    | .250"              | SPDT on-(on)                  | 5A @ 125VAC    | .50 x .27 x .37              | —            | .14  | Solder right angle | Red          | 1.49    | 1.29   | 1.09   |

\* Lead wires    1 Alt = alternate action    † Subminiature    † With red neon lamp (5V)    †† Cap is not included

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above



# Cord, Slide & Toggle Switches

3 LEVELS OF SAVINGS  
NAME BRANDS HOUSE BRANDS FACTORY OVERRUN

## Switchcraft®

### Cord-Switch®

- Maximum cable diameter: .375"
- Plastic insulation
- Copper alloy plated housing and switch bushing

| Part No. | Mfr. Part No. | Contact Form  | 0 momentary | Button Color | 1       | 10      | 50      |
|----------|---------------|---------------|-------------|--------------|---------|---------|---------|
| 297502   | ED903         | SPDT off-(on) |             | Red          | \$12.95 | \$11.49 | \$10.49 |

★ Web Code: CSH



### Inline Cord Switch

- Contact form: SPST on-off
- Terminal: solder
- Contact rating: 6A @ 20VDC
- Black plastic body



| Part No. | Mfr. Part No. | 1      | 10     | 100    |
|----------|---------------|--------|--------|--------|
| 621270   | 35-1851-BU    | \$3.49 | \$3.19 | \$2.89 |

## Switch Grab Bags

- Assorted – toggle, pushbutton, rocker and slide switches

| Part No. | Product No. | No. of Pcs. | Wt. (lbs.) | 1      | 10     |
|----------|-------------|-------------|------------|--------|--------|
| 18235    | GB165       | 50          | 0.4        | \$8.95 | \$7.95 |
| 135378   | GB165LB     | 150         | 1.0        | 19.95  | 17.95  |

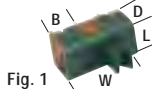


## The Best Warranty in the Industry

All Jameco purchases are guaranteed for a full 90 days and even longer for Jameco House Brands.

## Slide Switches

- Two mounting flanges
- Top actuation
- 6/6 nylon plastic housing
- Nylon actual
- Phenolic insulated



★ Web Code: LAP

| Part No. | Manufacturer   | Product No.   | Fig. | Pins | Contact Form | Contact Rating | Dimensions (L" x W" x D") | Lead Spacing |     | Housing Material | Lead Length | Actuator Height | Pricing |        |        |
|----------|----------------|---------------|------|------|--------------|----------------|---------------------------|--------------|-----|------------------|-------------|-----------------|---------|--------|--------|
|          |                |               |      |      |              |                |                           | A"           | B"  |                  |             |                 | 1       | 10     | 100    |
| 549010   | AlcoSwitch     | 1-1437575-4   | 1    | 3    | SPDT on-on   | 0.1A @ 30VAC   | .35"L x .13"W x .13"D     | .10          | .10 | Plastic          | .12"        | .08"            | \$2.75  | \$2.39 | \$2.09 |
| 202770   | Various        | 74650-009     | 2    | 6    | SPDT on-on   | 0.1A @ 30VDC   | .35"L x .70"W x .30"D     | .17          | .20 | Plastic          | .16"        | .32"            | .29     | .25    | .19    |
| 588220   | C&K Switches   | OS102011MA1Q1 | 3    | 3    | SPDT on-on   | 0.2A @ 30VDC   | .34"L x .17"W x .15"D     | —            | .08 | Metal            | .11"        | .16"            | .39     | .35    | .29    |
| 621325   | GC Electronics | 35-202-BU     | 4    | 3    | SPDT on-on   | 0.3A @ 30VAC   | .44"L x .22"W x .18"D     | .14          | —   | Metal            | .14"        | .16"            | 1.79    | 1.59   | 1.39   |
| 109171   | ValuePro       | G4050X-R      | 1    | 3    | SPDT on-on   | 0.5A @ 50VDC   | .22"L x .45"W x .23"D     | —            | .12 | Plastic          | .17"        | .15"            | .35     | .29    | .25    |
| 204142   | C&K Switches   | 4102021MLOY   | 5    | 3    | SPDT on-on   | 2.0A @ 28VDC   | .77"L x .40"W x .37"D     | —            | .19 | Plastic          | .19"        | .17"            | .29     | .25    | .19    |
| 161817   | ValuePro       | MS-306-R      | 4    | 6    | DPDT on-on   | 0.3A @ 6VDC    | .35"L x .14"W x .14"D     | .10          | .10 | Plastic          | .14"        | .08"            | .59     | .49    | .45    |
| 2076210  | CWI            | GF126-1093    | 4    | 6    | DPDT on-on   | 0.5A @ 125VDC  | 1.0"L x .41"W x .30"D     | .19          | .29 | Metal            | .25"        | .20"            | .69     | .59    | .49    |

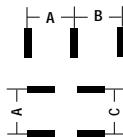
Blue Part No. = Limited Quantity Available

JAMECO ValuePro

## Standard Toggle Switches

★ Web Code: NAJ

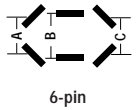
- Medium duty
- Mounting hole dia.: 1/2"



3-pin



2-pin or 4-pin



6-pin



Fig. 1



Fig. 2



Fig. 3



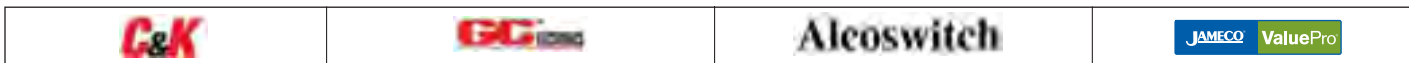
Fig. 4



Fig. 5

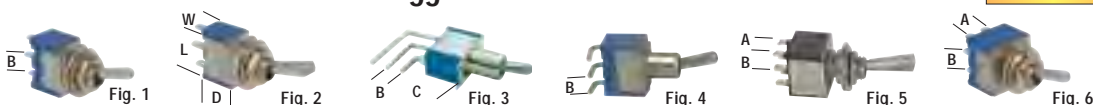
| Part No. | Manufacturer   | Product No. | Fig. | Pins | Contact Form   | Contact Rating (A @ VAC) | Dimensions (L" x W" x D") | Lead Spacing |     |     | Terminal Type       | Lever Type | Pricing |        |        |
|----------|----------------|-------------|------|------|----------------|--------------------------|---------------------------|--------------|-----|-----|---------------------|------------|---------|--------|--------|
|          |                |             |      |      |                |                          |                           | A"           | B"  | C"  |                     |            | 1       | 10     | 100    |
| 76241    | ValuePro       | SWM128      | 1    | 2    | SPST on-off    | 4 @ 125 & 2 @ 250        | 1.00 x .56 x .52          | .23          | —   | —   | Solder lugs         | Round      | \$1.79  | \$1.59 | \$1.35 |
| 76232    | ValuePro       | SWM125      | 2    | 2    | SPST on-off    | 6 @ 125 & 3 @ 250        | 1.00 x .53 x .51          | .23          | —   | —   | 6" lead wire        | Round      | 2.19    | 1.89   | 1.69   |
| 317825   | ValuePro       | R13-25A2-01 | 3    | 2    | SPST on-off    | 10 @ 125 & 6 @ 250       | 1.14 x .59 x .62          | .38          | .38 | —   | .250" quick connect | Metal      | 2.49    | 2.19   | 1.89   |
| 318027   | ValuePro       | R13-28A-06  | 3    | 2    | SPST on-off    | 15 @ 125 & 10 @ 250      | 1.33 x .75 x .75          | .45          | .61 | .45 | M3 screw            | Round      | 1.79    | 1.59   | 1.45   |
| 318002   | ValuePro       | R13-28A-01  | 3    | 2    | SPST on-off    | 15 @ 125 & 10 @ 250      | 1.33 x .75 x .75          | .45          | .61 | .45 | .250" quick connect | Round      | 2.49    | 2.19   | 1.89   |
| 621499   | GC Electronics | 35-3005     | 4    | 2    | SPST on-off    | 20 @ 125                 | .92 x .64 x .40           | —            | .47 | —   | .250" quick connect | Bat brass  | 2.95    | 2.59   | 2.29   |
| 158060   | ValuePro       | JKN32       | 1    | 4    | SPDT on-off    | 4 @ 125 & 2 @ 250        | 1.00 x .56 x .52          | .23          | —   | .23 | Solder lugs         | Round      | 1.19    | 1.05   | .89    |
| 318086   | ValuePro       | R13-28C-01  | 3    | 3    | SPDT on-on     | 15 @ 125 & 10 @ 250      | 1.33 x .75 x .75          | .45          | .61 | .45 | .250" quick connect | Round      | 1.69    | 1.49   | 1.25   |
| 318094   | ValuePro       | R13-28C-05  | 3    | 3    | SPDT on-on     | 15 @ 125 & 10 @ 250      | 1.33 x .75 x .75          | .45          | .61 | .45 | Solder              | Round      | 1.69    | 1.49   | 1.25   |
| 318107   | ValuePro       | R13-28C-06  | 3    | 3    | SPDT on-on     | 15 @ 125 & 10 @ 250      | 1.33 x .75 x .75          | .45          | .61 | .45 | M3 screw            | Round      | 1.69    | 1.49   | 1.25   |
| 317892   | ValuePro       | R13-25C1-05 | 5    | 3    | SPDT on-on     | 10 @ 125 & 6 @ 250       | 1.14 x .59 x .62          | .38          | .38 | —   | Solder              | Plastic    | 1.69    | 1.49   | 1.25   |
| 317913   | ValuePro       | R13-25C2-05 | 5    | 3    | SPDT on-on     | 10 @ 125 & 6 @ 250       | 1.14 x .59 x .62          | .38          | .38 | —   | Solder              | Metal      | 1.69    | 1.49   | 1.25   |
| 317884   | ValuePro       | R13-25C1-01 | 5    | 3    | SPDT on-on     | 10 @ 125 & 6 @ 250       | 1.14 x .59 x .62          | .38          | .38 | —   | .250" quick connect | Plastic    | 1.69    | 1.49   | 1.25   |
| 317905   | ValuePro       | R13-25C2-01 | 5    | 3    | SPDT on-on     | 10 @ 125 & 6 @ 250       | 1.14 x .59 x .62          | .38          | .38 | —   | .250" quick connect | Metal      | 1.69    | 1.49   | 1.25   |
| 317931   | ValuePro       | R13-25D1-05 | 2    | 3    | SPDT on-off-on | 10 @ 125 & 6 @ 250       | 1.14 x .60 x .62          | .34          | .34 | —   | Solder lugs         | Paddle     | 1.89    | 1.69   | 1.49   |
| 318123   | ValuePro       | R13-28D-01  | 3    | 3    | SPDT on-off-on | 15 @ 125 & 10 @ 250      | 1.33 x .75 x .75          | .45          | .61 | .45 | .250" quick connect | Round      | 2.19    | 1.89   | 1.69   |
| 318141   | ValuePro       | R13-28D-06  | 3    | 3    | SPDT on-off-on | 15 @ 125 & 10 @ 250      | 1.33 x .75 x .75          | .45          | .61 | .45 | M3 screw            | Round      | 3.79    | 3.19   | 2.95   |
| 158078   | ValuePro       | JKN3CC      | 1    | 6    | DPDT on-on     | 10 @ 125 & 6 @ 250       | 1.19 x .76 x .73          | .44          | .59 | .44 | Screw lugs          | Round      | 1.29    | 1.15   | 1.05   |
| 76260    | ValuePro       | SWM126      | 1    | 6    | DPDT on-on     | 5 @ 125 & 3 @ 250        | 1.10 x .77 x .60          | .30          | .60 | .30 | Solder lugs         | Round      | 1.75    | 1.59   | 1.45   |
| 318060   | ValuePro       | R13-28B-06  | 3    | 6    | DPDT on-on     | 15 @ 125 & 10 @ 250      | 1.33 x .75 x .75          | .45          | .61 | .45 | M3 screw            | Round      | 1.95    | 1.75   | 1.59   |
| 318043   | ValuePro       | R13-28B-01  | 3    | 6    | DPDT on-on     | 15 @ 125 & 10 @ 250      | 1.33 x .75 x .75          | .45          | .61 | .45 | .250" quick connect | Round      | 3.95    | 3.39   | 2.49   |
| 318052   | ValuePro       | R13-28B-05  | 3    | 6    | DPDT on-on     | 15 @ 125 & 10 @ 250      | 1.33 x .75 x .75          | .45          | .61 | .45 | Solder              | Round      | 3.95    | 3.39   | 2.49   |
| 317850   | ValuePro       | R13-25B1-05 | 5    | 6    | DPDT on-on     | 10 @ 125 & 6 @ 250       | 1.14 x .79 x .62          | .40          | .40 | .40 | Solder lugs         | Paddle     | 1.95    | 1.75   | 1.59   |
| 567761   | Various        | SWM127      | 3    | 6    | DPDT on-off-on | 10 @ 125 & 5 @ 250       | 1.18 x .77 x .75          | .40          | .60 | .40 | M3 screw            | Round      | 3.95    | 3.39   | 2.49   |
| 317972   | ValuePro       | R13-25E1-05 | 5    | 6    | DPDT on-off-on | 10 @ 125 & 6 @ 250       | 1.14 x .59 x .62          | .38          | .38 | —   | Solder              | Plastic    | 1.95    | 1.75   | 1.59   |

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 197.



JAMECO ValuePro

• Mounting hole diameter: 1/4"  
Includes: Mounting hardware



★ Web Code: PAJ

## Miniature Toggle Switches

| Part No. | Mfr. | Product No.   | Fig. | Pins | Contact Form<br>( ) Momentary | Contact Rating<br>(A @ VAC) | Dimensions<br>(L" x W" x D") | Lead Spacing |       |      | Terminal Type  | Lever Type | Pricing |        |        |
|----------|------|---------------|------|------|-------------------------------|-----------------------------|------------------------------|--------------|-------|------|----------------|------------|---------|--------|--------|
|          |      |               |      |      |                               |                             |                              | A"           | B"    | C"   |                |            | 1       | 10     | 100    |
| 317228   | JVP  | 1MS9T1B1M1QE  | 1    | 2    | SPST on-off                   | 5 @ 120 & 2 @ 250           | .50 x .27 x .35              | —            | 0.190 | —    | Solder lugs    | Round      | \$1.95  | \$1.75 | \$1.59 |
| 76523    | JVP  | JMT113        | 1    | 2    | SPST on-off                   | 6 @ 125 & 3 @ 250           | .52 x .32 x .38              | —            | 0.185 | —    | Solder lugs    | Round      | 1.39    | 1.25   | 1.09   |
| 317287   | JVP  | 1MS9T6B11M1QE | 2    | 3    | SPST on-off                   | 5 @ 120 & 2 @ 250           | .50 x .27 x .35              | —            | 0.185 | —    | Solder lugs    | Flat       | 1.49    | 1.35   | 1.19   |
| 777768   | C&K  | T101MHZQE     | 1    | 3    | SPDT on-on                    | 3 @ 120                     | .32 x .20 x .34              | —            | 0.100 | —    | Solder lugs    | Round      | 5.95    | 5.49   | 4.95   |
| 26332    | JVP  | MPC123R       | 1    | 3    | SPDT on-on                    | 6 @ 125 & 3 @ 250           | .52 x .32 x .37              | —            | 0.185 | —    | PC straight    | Round      | 1.89    | 1.75   | 1.49   |
| 21936    | JVP  | JMT123        | 1    | 3    | SPDT on-on                    | 6 @ 125 & 3 @ 250           | .52 x .32 x .38              | —            | 0.185 | —    | Solder lugs    | Round      | 1.55    | 1.25   | 1.09   |
| 75854    | JVP  | SWM132        | 1    | 3    | SPDT on-on                    | 6 @ 125 & 3 @ 250           | .52 x .32 x .38              | —            | 0.185 | —    | Solder lugs    | Round      | 1.55    | 1.25   | 1.09   |
| 317236   | JVP  | 1MS1T1B1M1QE  | 2    | 3    | SPDT on-on                    | 5 @ 120 & 2 @ 250           | .50 x .27 x .35              | —            | 0.185 | —    | Solder lugs    | Round      | 1.39    | 1.25   | 1.09   |
| 317295   | JVP  | 1MS1T6B11M1QE | 2    | 3    | SPDT on-on                    | 5 @ 120 & 2 @ 250           | .50 x .27 x .35              | —            | 0.185 | —    | Solder lugs    | Flat       | 1.49    | 1.35   | 1.09   |
| 317279   | JVP  | 1MS2T1B1M1QE  | 2    | 3    | SPDT on-(on)                  | 5 @ 120 & 2 @ 250           | .50 x .27 x .35              | —            | 0.185 | —    | Solder lugs    | Round      | 1.75    | 1.59   | 1.39   |
| 317332   | JVP  | 1MS2T6B11M1QE | 2    | 3    | SPDT on-(on)                  | 5 @ 120 & 2 @ 250           | .50 x .27 x .35              | —            | 0.185 | —    | Solder lugs    | Flat       | 1.75    | 1.59   | 1.39   |
| 22833    | JVP  | MS102F1-R     | 2    | 3    | SPDT on-on                    | 6 @ 125 & 3 @ 250           | .52 x .28 x .36              | —            | 0.185 | —    | Solder lugs    | Flat       | 1.49    | 1.35   | 1.09   |
| 71597    | JVP  | SWM148        | 3    | 3    | SPDT on-on                    | 6 @ 125 & 3 @ 250           | .52 x .32 x .38              | —            | 0.185 | 0.20 | PC right angle | Round      | .99     | .89    | .79    |
| 75871    | JVP  | SWM145        | 4    | 3    | SPDT on-on                    | 6 @ 125 & 3 @ 250           | .52 x .32 x .38              | —            | 0.185 | 0.20 | PC right angle | Round      | 1.49    | 1.35   | 1.09   |
| 567744   | C&K  | 7105          | 2    | 3    | SPDT (on)-off-(on)            | 5 @ 125                     | .50 x .27 x .35              | —            | 0.185 | —    | PC straight    | Round      | 1.25    | 1.09   | .79    |
| 75889    | JVP  | SWM129        | 1    | 3    | SPDT (on)-off-(on)            | 6 @ 125 & 3 @ 250           | .52 x .32 x .38              | —            | 0.185 | —    | Solder lugs    | Round      | 1.49    | 1.25   | 1.09   |
| 21910    | JVP  | JMT121        | 1    | 3    | SPDT on-off-on                | 6 @ 125 & 3 @ 250           | .52 x .32 x .38              | —            | 0.185 | —    | Solder lugs    | Round      | 1.35    | 1.25   | 1.09   |
| 26315    | JVP  | MPC121        | 1    | 3    | SPDT on-off-on                | 6 @ 125 & 3 @ 250           | .52 x .32 x .37              | —            | 0.185 | —    | PC straight    | Round      | 1.29    | 1.15   | 1.05   |
| 317244   | JVP  | 1MS3T1B1M1QE  | 2    | 3    | SPDT on-off-on                | 5 @ 120 & 2 @ 250           | .50 x .27 x .35              | —            | 0.185 | —    | Solder lugs    | Round      | 1.75    | 1.59   | 1.39   |
| 317308   | JVP  | 1MS3T6B11M1QE | 2    | 3    | SPDT on-off-on                | 5 @ 120 & 2 @ 250           | .50 x .27 x .35              | —            | 0.185 | —    | Solder lugs    | Flat       | 1.75    | 1.59   | 1.39   |
| 317252   | JVP  | 1MS4T1B1M1QE  | 2    | 3    | SPDT (on)-off-(on)            | 5 @ 120 & 2 @ 250           | .50 x .27 x .35              | —            | 0.185 | —    | Solder lugs    | Round      | 1.75    | 1.59   | 1.39   |
| 317316   | JVP  | 1MS4T6B11M1QE | 2    | 3    | SPDT (on)-off-(on)            | 5 @ 120 & 2 @ 250           | .50 x .27 x .35              | —            | 0.185 | —    | Solder lugs    | Flat       | 1.49    | 1.25   | 1.09   |
| 317261   | JVP  | 1MS5T1B1M1QE  | 2    | 3    | SPDT on-off-(on)              | 5 @ 120 & 2 @ 250           | .50 x .27 x .35              | —            | 0.185 | —    | Solder lugs    | Round      | 1.75    | 1.59   | 1.39   |
| 317324   | JVP  | 1MS5T6B11M1QE | 2    | 3    | SPDT on-off-(on)              | 5 @ 120 & 2 @ 250           | .50 x .27 x .35              | —            | 0.185 | —    | Solder lugs    | Flat       | 1.75    | 1.59   | 1.39   |
| 2077044  | JVP  | MTS-103AA     | 3    | 3    | SPDT on-off-on                | 6 @ 125 & 3 @ 250           | .52 x .32 x .39              | —            | 0.149 | 0.51 | PC right angle | Round      | .99     | .89    | .79    |
| 317404   | JVP  | 1MD9T1B1M1QE  | 5    | 6    | DPST on-off                   | 5 @ 120 & 2 @ 250           | .50 x .45 x .35              | 0.19         | 0.185 | —    | Solder lugs    | Round      | 2.29    | 1.95   | 1.75   |
| 317463   | JVP  | 1MD9T6B11M1QE | 5    | 6    | DPST on-off                   | 5 @ 120 & 2 @ 250           | .50 x .45 x .50              | 0.19         | 0.185 | —    | Solder lugs    | Flat       | 1.59    | 1.39   | 1.19   |
| 75900    | JVP  | SWM133        | 6    | 6    | DPDT on-on                    | 6 @ 125 & 3 @ 250           | .52 x .52 x .38              | 0.20         | 0.185 | —    | Solder lugs    | Round      | 1.79    | 1.59   | 1.35   |
| 21979    | JVP  | JMT223        | 6    | 6    | DPDT on-on                    | 6 @ 125 & 3 @ 250           | .52 x .52 x .38              | 0.20         | 0.185 | —    | Solder lugs    | Round      | 1.49    | 1.25   | 1.09   |
| 26367    | JVP  | GTS112-P      | 6    | 6    | DPDT on-on                    | 6 @ 125 & 3 @ 250           | .52 x .50 x .41              | 0.20         | 0.157 | —    | PCB            | Round      | 1.49    | 1.25   | 1.09   |
| 317412   | JVP  | 1MD1T1B1M1QE  | 5    | 6    | DPDT on-on                    | 5 @ 120 & 2 @ 250           | .50 x .45 x .35              | 0.19         | 0.185 | —    | Solder lugs    | Round      | 2.29    | 1.95   | 1.75   |
| 317472   | JVP  | 1MD1T6B11M1QE | 5    | 6    | DPDT on-on                    | 5 @ 120 & 2 @ 250           | .50 x .45 x .35              | 0.19         | 0.185 | —    | Solder lugs    | Flat       | 2.29    | 1.95   | 1.75   |
| 317455   | JVP  | 1MD2T1B1M1QE  | 5    | 6    | DPDT on-(on)                  | 5 @ 120 & 2 @ 250           | .50 x .45 x .35              | 0.19         | 0.185 | —    | Solder lugs    | Round      | 11.49   | 1.29   | 1.09   |
| 317519   | JVP  | 1MD2T6B11M1QE | 5    | 6    | DPDT on-(on)                  | 5 @ 120 & 2 @ 250           | .50 x .45 x .36              | 0.19         | 0.185 | —    | Solder lugs    | Flat       | 2.29    | 1.95   | 1.75   |
| 22859    | JVP  | GTS172BLK     | 5    | 6    | DPDT on-on                    | 6 @ 125 & 3 @ 250           | .52 x .52 x .38              | 0.20         | 0.185 | —    | Solder lugs    | Flat       | 1.55    | 1.25   | 1.09   |
| 202964   | ◆    | WI24          | 3    | 6    | DPDT on-off-(on)              | 6 @ 125 & 3 @ 250           | .50 x .50 x .46              | 0.15         | 0.150 | 0.20 | PC right angle | Round      | .99     | .89    | .79    |
| 75951    | JVP  | SWM130        | 6    | 6    | DPDT (on)-off-(on)            | 6 @ 125 & 3 @ 250           | .52 x .52 x .38              | 0.20         | 0.185 | —    | Solder lugs    | Round      | 1.49    | 1.25   | 1.09   |
| 26358    | JVP  | MPC221        | 6    | 6    | DPDT on-off-on                | 6 @ 125 & 3 @ 250           | .52 x .52 x .38              | 0.20         | 0.185 | —    | PC straight    | Round      | 1.49    | 1.25   | 1.09   |
| 21952    | JVP  | GTS114        | 6    | 6    | DPDT on-off-on                | 6 @ 125 & 3 @ 250           | .52 x .52 x .38              | 0.20         | 0.185 | —    | Solder lugs    | Round      | 1.55    | 1.25   | 1.09   |
| 317439   | JVP  | 1MD4T1B1M1QE  | 5    | 6    | DPDT (on)-off-(on)            | 5 @ 120 & 2 @ 250           | .50 x .45 x .35              | 0.19         | 0.185 | —    | Solder lugs    | Round      | 2.29    | 1.95   | 1.75   |
| 317498   | JVP  | 1MD4T6B11M1QE | 5    | 6    | DPDT (on)-off-(on)            | 5 @ 120 & 2 @ 250           | .50 x .45 x .35              | 0.19         | 0.185 | —    | Solder lugs    | Flat       | 1.95    | 1.75   | 1.59   |
| 317447   | JVP  | 1MD5T1B1M1QE  | 5    | 6    | DPDT on-off (on)              | 5 @ 120 & 2 @ 250           | .50 x .45 x .35              | 0.19         | 0.185 | —    | Solder lugs    | Round      | 2.29    | 1.95   | 1.75   |
| 317501   | JVP  | 1MD5T6B11M1QE | 5    | 6    | DPDT on-off-(on)              | 5 @ 120 & 2 @ 250           | .50 x .45 x .35              | 0.19         | 0.185 | —    | Solder lugs    | Flat       | 2.29    | 1.95   | 1.75   |
| 317421   | JVP  | 1MD3T1B1M1QE  | 5    | 6    | DPDT on-off-on                | 5 @ 120 & 2 @ 250           | .50 x .45 x .35              | 0.19         | 0.185 | —    | Solder lugs    | Round      | 2.29    | 1.95   | 1.75   |
| 317490   | JVP  | 1MD3T6B11M1QE | 5    | 6    | DPDT on-off-on                | 5 @ 120 & 2 @ 250           | .50 x .45 x .35              | 0.19         | 0.185 | —    | Solder lugs    | Flat       | 2.29    | 1.95   | 1.75   |
| 22841    | JVP  | GTS164BLK     | 5    | 6    | DPDT on-off-on                | 6 @ 125 & 3 @ 250           | .52 x .52 x .38              | 0.20         | 0.185 | —    | Solder lugs    | Flat       | 1.49    | 1.25   | 1.09   |
| 620576   | GCE  | 35-009        | 6    | 6    | DPDT on-on-on                 | 5 @ 125                     | .50 x .45 x .40              | .23          | .15   | —    | Solder         | Bat brass  | 3.95    | 3.59   | 3.19   |
| 547436   | ALC  | MTA306D       | 6    | 9    | 3PDT on-on                    | 6 @ 125 & 3 @ 250           | .70 x .51 x .45              | 0.19         | 0.190 | —    | Solder lugs    | Round      | 10.95   | 9.95   | 8.95   |

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\* ALC = AlcoSwitch | C&K = C&K Switches | GCE = GC Electronics | JVP = Jameco ValuePro | ◆ Manufacturer Varies

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# Subminiature Toggle, Rocker & Specialty Switches

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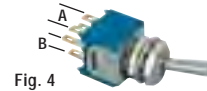
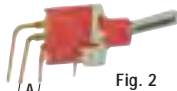
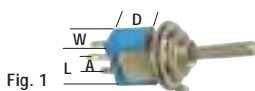
JAMECO ValuePro

## Subminiature Toggle Switches

\* Web Code: NAN

- Mounting hole diameter: 7/32"
- Pre-tinned leads
- Metal construction

Includes: Mounting hardware



| Part No. | *Manufacturer | Product No. | Fig. | Pins | Contact Form<br>( ) Momentary | Contact Rating   | Dimensions<br>(L" x W" x D") | Lead Spacing |     | Terminal Type  | Type  | Pricing |        |        |
|----------|---------------|-------------|------|------|-------------------------------|------------------|------------------------------|--------------|-----|----------------|-------|---------|--------|--------|
|          |               |             |      |      |                               |                  |                              | A"           | B"  |                |       | 1       | 10     | 100    |
| 72161    | ValuePro      | SW1501      | 1    | 2    | SPST on-off                   | 1.5A @ 250VAC    | .33 x .21 x .33              | .10          | —   | Solder lugs    | Round | \$1.29  | \$1.15 | \$1.05 |
| 1585493  | C&K           | ET012D1AVBE | 2    | 3    | SPDT on-on                    | 0.2A @ 20VDC/VAC | .32 x .20 x .18              | .10          | —   | PC right angle | Round | .95     | .89    | .65    |
| 106067   | ValuePro      | SWP124      | 3    | 3    | SPDT on-on                    | 0.3A @ 5VDC      | .25 x .33 x .40              | .20          | .10 | PC right angle | Round | 1.89    | 1.75   | 1.49   |
| 567752   | Fujisoku      | AT1D-6M3    | 3    | 3    | SPDT on-on                    | 0.5A @ 48VDC/VAC | .37 x .22 x .33              | .10          | —   | PC right angle | Round | 1.09    | .79    | .59    |
| 75969    | ValuePro      | SWM136      | 1    | 3    | SPDT on-on                    | 3A @ 125VAC      | .33 x .21 x .33              | .10          | —   | Solder lugs    | Round | 1.69    | 1.49   | 1.29   |
| 72557    | ValuePro      | GTS304      | 1    | 3    | SPDT on-off-on                | 1.5A @ 250VAC    | .32 x .20 x .28              | .10          | —   | Solder lugs    | Round | 1.35    | 1.25   | 1.09   |
| 2076228  | C&K (sealed)  | ET05J6ABE   | 3    | 3    | SPDT (on)-off-(on)            | 4A @ 20VDC/VAC   | .32 x .32 x .20              | .20          | .08 | PC right angle | Round | .75     | .59    | .49    |
| 75977    | ValuePro      | SWM137      | 4    | 6    | DPDT on-on                    | 1.5A @ 250VAC    | .33 x .37 x .33              | .17          | .10 | Solder lugs    | Round | 1.49    | 1.35   | 1.09   |
| 138907   | ValuePro      | SW1503      | 4    | 6    | DPDT on-off-on                | 3A @ 120VAC      | .36 x .37 x .33              | .17          | .10 | Solder lugs    | Round | 1.55    | 1.25   | 1.09   |

JAMECO ValuePro

## Panel Mount Rocker Switches



\* Web Code: VBU



### Standard Appliance Rocker Switches

| Part No. | *Mfr. | Product No.   | Pins | Contact Form<br>( ) Momentary | Contact Rating<br>(A @ VAC) | Dimensions<br>(L" x W" x D") | Lead Space |      | Rocker Color  | Terminal Type       | Mounting Type | Pricing |        |        |
|----------|-------|---------------|------|-------------------------------|-----------------------------|------------------------------|------------|------|---------------|---------------------|---------------|---------|--------|--------|
|          |       |               |      |                               |                             |                              | A"         | B"   |               |                     |               | 1       | 10     | 100    |
| 316451   | JVP   | R13-243A-02   | 2    | SPST on-off                   | 8 @ 125                     | .83 x .37 x .85              | 0.35       | —    | Black         | .187" quick connect | Panel mount   | \$ .89  | \$ .79 | \$ .69 |
| 577221   | CHY   | RRA22H3BBBNN  | 2    | SPST on-off                   | 10 @ 125                    | .69 x .51 x .64              | 0.35       | —    | Black         | .187" quick connect | Panel mount   | .95     | .85    | .75    |
| 2120196  | JVP   | HF-606        | 2    | SPST on-off                   | 10 @ 125                    | .83 x .59 x .55              | 0.27       | —    | Black         | .187" quick connect | Panel mount   | .79     | .69    | .59    |
| 1945276  | PRO   | BR-12A-55S    | 2    | SPST on-off                   | 10 @ 125                    | .83 x .59 x .59              | 0.31       | —    | Lt. gray      | 5.5" wire leads     | Panel mount   | .39     | .29    | .25    |
| 1945284  | PRO   | R13-66        | 2    | SPST on-off                   | 10 @ 125                    | .83 x .59 x .55              | 0.31       | —    | Dk. gray      | 5.5" wire leads     | Panel mount   | .39     | .29    | .25    |
| 316128   | JVP   | R13-73B-R-02  | 3    | SPST on-off                   | 10 @ 125                    | .83 x .59 x .87              | 0.35       | 0.35 | Red illum.    | .187" quick connect | Panel mount   | 1.49    | 1.35   | 1.19   |
| 316136   | JVP   | R13-73B-Y-02  | 3    | SPST on-off                   | 10 @ 125                    | .83 x .59 x .87              | 0.35       | 0.35 | Yellow illum. | .187" quick connect | Panel mount   | .95     | .79    | .69    |
| 196154   | JVP   | R30NSA-B/B    | 2    | SPST on-off                   | 15 @ 125                    | 1.07 x .42 x .77             | 0.45       | —    | Black         | .250" quick connect | Panel mount   | .69     | .65    | .55    |
| 316014   | JVP   | R13-66A-B-02  | 2    | SPST on-off                   | 16 @ 125                    | .83 x .59 x .63              | 0.31       | —    | Black         | .187" quick connect | Panel mount   | .95     | .85    | .75    |
| 316022   | JVP   | R13-66A-R-02  | 2    | SPST on-off                   | 16 @ 125                    | .83 x .59 x .63              | 0.31       | —    | Red           | .187" quick connect | Panel mount   | .95     | .85    | .65    |
| 316048   | JVP   | R13-66B-G-02  | 3    | SPST on-off                   | 16 @ 125                    | .83 x .59 x .47              | 0.31       | 0.31 | Green illum.  | .187" quick connect | Panel mount   | 1.19    | 1.05   | .89    |
| 1945241  | ITW   | 163-099-029   | 3    | SPDT                          | 12 @ 250                    | 1.2 x .55 x .59              | 0.26       | 0.26 | Black         | .250" quick connect | Panel mount   | .35     | .25    | .15    |
| 316072   | JVP   | R13-66D-02    | 3    | SPDT on-off-on                | 16 @ 125                    | .83 x .59 x .47              | 0.31       | 0.31 | Black         | .187" quick connect | Panel mount   | .95     | .85    | .75    |
| 617473   | GCE   | 35-695        | 3    | SPDT (on)-off-(on)            | 16 @ 125                    | .93 x .43 x .62              | 0.34       | 0.56 | Black         | .250" quick connect | Panel mount   | 4.95    | 4.49   | 3.95   |
| 316111   | JVP   | R13-73A2-B-02 | 4    | DPST on-off                   | 10 @ 125                    | .83 x .59 x .68              | 0.20       | 0.34 | Black         | .187" quick connect | Panel mount   | 1.49    | 1.35   | 1.19   |
| 316153   | JVP   | R13-73C-R-02  | 4    | DPST on-off                   | 10 @ 125                    | .83 x .59 x .87              | 0.20       | 0.34 | Black         | .187" quick connect | Panel mount   | 1.29    | 1.15   | .95    |

### Miniature Rocker Switch

|        |     |        |   |                |         |   |      |      |     |            |             |        |        |        |
|--------|-----|--------|---|----------------|---------|---|------|------|-----|------------|-------------|--------|--------|--------|
| 617369 | JVP | 35-676 | 6 | DPDT on-off-on | 8 @ 125 | — | 0.18 | 0.22 | Red | Solder lug | Panel mount | \$4.95 | \$4.49 | \$3.95 |
|--------|-----|--------|---|----------------|---------|---|------|------|-----|------------|-------------|--------|--------|--------|

## Specialty Switches



### Pull Chain Switch • Current rating: 6A @ 20VAC/VDC; 3A @ 120VAC

| Part No. | *Mfr. | Mfr. Part No. | Contact Form | Actuator          | Terminal Type | 1      | 10     | 100    |
|----------|-------|---------------|--------------|-------------------|---------------|--------|--------|--------|
| 617764   | GCE   | 35-864        | SPST on-off  | 3 1/2" pull chain | 6" wires      | \$2.69 | \$2.49 | \$2.29 |

### Magnetic Proximity

• Current rating: 0.5A @ 20VAC/VDC; 0.08A @ 120VAC, P/N 588123/588182/588131: 30VAC @ .3A

| Part No. | *Mfr. | Mfr. Part No. | Contact Form          | Actuator    | Terminal Type                        | 1      | 10     | 100    |
|----------|-------|---------------|-----------------------|-------------|--------------------------------------|--------|--------|--------|
| 617529   | GCE   | 35-752        | SPDT NO/NC            | Use magnet  | Leaded SD                            | \$4.95 | \$4.49 | \$3.95 |
| 617545   | GCE   | 35-756        | SPDT NO/NC w/o magnet | Need magnet | Screw term., 1/4" gap, surface mount | 6.95   | 6.29   | 5.69   |
| 588123   | C&K   | MPS20WGW      | SPST NO               | Use magnet  | Screw term., 1" gap, surface mount   | 10.95  | 10.49  | 9.95   |
| 588182   | C&K   | MPS9WGW       | SPST NO               | Use magnet  | Lead wires, 22AWG, 12"L              | 8.95   | 7.95   | 7.49   |
| 588131   | C&K   | MPS45WGW      | SPST NO               | Use magnet  | Lead wires, 22AWG, 12"L              | 6.29   | 5.79   | 5.35   |

### Knife Switch

• Current rating: 0.5A @ 6VDC • Mounting hole: 3.4mm

|        |     |        |                |                |                                    |        |        |        |
|--------|-----|--------|----------------|----------------|------------------------------------|--------|--------|--------|
| 617490 | GCE | 35-730 | DPDT on-off-on | Plastic handle | Screw terminal, 0.6" gap/1.25" gap | \$5.95 | \$5.35 | \$4.79 |
|--------|-----|--------|----------------|----------------|------------------------------------|--------|--------|--------|

## Switch Assortment Kit

SAVE \$63

- 20-drawer component cabinet (319600), 20 clear plastic drawers (319601), 20 clear dividers (319611), pg 173 and 30 adhesive labels for drawers to identify parts in kit
- 10 ea. miniature toggle switches (76523, 21936, 21910, 26332, 26315, 21979, 21952, 26367, 26358), pg 95
- 10 ea. slide switches (109171), pg 94
- 10 ea. pushbutton switches (26623, 26649), pg 93
- 10 ea. DIP switches (38818, 38843), pg 97
- 10 ea. tactile switches (153252), pg 98

| Part No. | Description         | Wt. (lbs.) | 1       | 5       |
|----------|---------------------|------------|---------|---------|
| 85059    | 150 pcs. switch kit | 5.0        | \$99.95 | \$89.95 |

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\* CHY = Cherry | C&K = C&K Switches | GCE = GC Electronics | JVP = Jameco ValuePro | ITW = Illinois Tool | PRO = Pronic Electronic | ♦ Manufacturer Varies

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 197.



## EGE Rotary DIP Switches

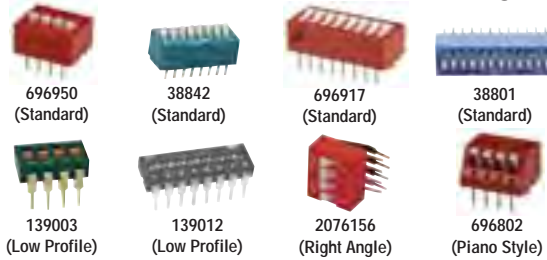
- Gold plated contacts to ensure reliable, low resistance connection
- Fully sealed construction
- Terminals: PC pin leads
- Life: 10,000 cycles min.
- Op. force: 500g-cm max.
- Lead spacing: A = 0.1"; B = 0.3"
- Material: UL94V-0 grade
- Max. switching load rating: 25mA @ 24VDC
- Size: .39"W x .39"D x .20"H • Top adjustment



★ Web Code: UAX

| Part No. | Mfr. Part No. | Type | Pos. | 1     | 10            |
|----------|---------------|------|------|-------|---------------|
| 139636   | ERD110RSZ     | BCD  | 10   | ..... | \$2.89 \$2.59 |
| 139652   | ERD116RSZ     | HEX  | 16   | ..... | 2.95 2.65     |

## Standard, Low Profile, Piano & Right Angle DIP Switches



Compatible Socket Chart, see page 18 for Sockets

| Switch     | Socket | Switch      | Socket |
|------------|--------|-------------|--------|
| 2-position | 112193 | 7-position  | 112214 |
| 3-position | 112193 | 8-position  | 112222 |
| 4-position | 112206 | 9-position  | 112231 |
| 5-position | 112214 | 10-position | 38608  |
| 6-position | 112214 | 12-position | 112282 |

★ Web Code: UCY

- Switch contacts: SPST
- Piano switches have raised lever
- Low profile switches have either raised or slide levers

## 94H Series Rotary DIP Switches

- Make & break rating: 30mA @ 30VDC for 10,000 cycles
- Contact res.: 50mΩ max.
- Type: BCD 10-position
- Carrying current rating: 100mA @ 50VDC
- Insulation resistance: 5,000MΩ min.
- Contact material: 30μ" gold over 50μ" nickel



| Part No. | Mfr. Part No. | Actuator               | 1      | 10     |
|----------|---------------|------------------------|--------|--------|
| 697071   | 94HAB10RAT    | Flush right angle ..   | \$1.95 | \$1.75 |
| 788555   | 94HBB10T      | 0.270", straight ..... | 2.49   | 2.25   |

## JAMECO ValuePro Rotary Switches

- Contact rating: 30VDC @ 0.3A; except P/N 2099631: 125VAC @ 0.3A
- Insulation resistance: 10MΩ min.
- Mounting hole diameter: 3/8"; except P/N 2099631: 0.348"
- Contact resistance: 30mΩ
- Material: solid brass bushings, slotted aluminum shafts (except for P/N 2099631: D-type and P/N 622352); round, plated frame, plastic contact wafer (except for P/N 622352/2099631 – phenolic casing)
- Make before break; except P/N 2099631: break before make
- Solder eyelet lugs
- Shaft size: 0.46"L x 0.25" Dia.; except P/N 622352: 1.5"L x 0.25" Dia. and P/N 2099631: 0.34"L x 0.25" Dia.



★ Web Code: DAM

Includes: Washer and nut

| Part No. | Product No. | Poles | Pos. | 1     | 10     | 100           |
|----------|-------------|-------|------|-------|--------|---------------|
| 101532   | G3SR026     | 1     | 12   | ..... | \$ .95 | \$ .85 \$ .75 |
| 622352   | 35-376      | 1     | 12   | ..... | 2.95   | 2.65 2.39     |
| 2099631  | SR2511-0205 | 2     | 5    | ..... | .95    | .85 .75       |
| 101574   | G3SR022     | 2     | 6    | ..... | .95    | .85 .75       |
| 101566   | G3SR023     | 3     | 4    | ..... | .95    | .85 .75       |
| 101558   | G3SR024     | 4     | 3    | ..... | .95    | .85 .75       |

† Solder eyelet style

## C&K A Series Rotary Switches

- 1.5"H flatted actuator
- 3/8-32 threaded mounting style
- Solder lug terminals
- Dielectric strength: 1000Vrms
- 15,000 make & break cycles
- Contacts and terminals: brass, silver plated
- Contact resistance: 20mΩ typical @ 2-4VDC
- Contact rating: 2.5A @ 125VAC; 250mA @ 250VDC
- Housing/actuator: glass filled 6/6 nylon (UL94V-0)



| Part No. | Mfr. Part No. | Type          | Pos. | 1        | 10     |
|----------|---------------|---------------|------|----------|--------|
| 576501   | A11215RNZQ    | SP, 300 index | 12   | \$6.95   | \$6.25 |
| 576421   | A20615RNZQ    | DP, 300 index | 6    | ... 6.95 | 6.25   |

| Part No. | Product No. | *Mfr.† | Type† | Pos.† | Pricing              |
|----------|-------------|--------|-------|-------|----------------------|
| 109057   | 206-2       | ◆      | 1,5   | 2     | \$ .69 \$ .59 \$ .49 |
| 1951385  | 206-2LP     | ◆      | 2,6   | 2     | .69 .59 .45          |
| 2076156  | SDAX-2RX-X  | BNS    | 3,5   | 2     | .59 .45 .39          |
| 109059   | 206-2-VP-R  | JVP    | 3,5   | 2     | .79 .69 .59          |
| 206359   | 206-3       | ◆      | 1,5   | 3     | .65 .55 .45          |
| 202472   | ADF03       | ALC    | 2,6   | 3     | .59 .49 .45          |
| 696802   | DP-04B      | JVP    | 1,4   | 4     | .95 .85 .75          |
| 38818    | 206-4       | ◆      | 1,5   | 4     | .59 .55 .49          |
| 38820    | DT-04VP     | JVP    | 1,5   | 4     | .75 .65 .59          |
| 696950   | 78B04ST     | GRY    | 1,5   | 4     | 1.15 1.05 .85        |
| 2082231  | 3-4356405   | AMP    | 1,7   | 4     | .79 .69 .59          |
| 696888   | 76SB04ST    | GRY    | 1,7   | 4     | .95 .89 .79          |
| 206499   | DPS804      | FJT    | 2,4   | 4     | .69 .59 .49          |
| 139003   | 206-4LP     | JVP    | 2,5   | 4     | .75 .65 .55          |
| 778251   | 209-4LPST   | CTS    | 2,6   | 4     | .49 .45 .39          |
| 2076164  | SDAX-4RX-X  | BNS    | 3,5   | 4     | .59 .45 .39          |
| 2076181  | SDAX-4RX-T  | BNS    | 3,5   | 4     | .69 .59 .49          |
| 2082249  | JS8805      | ◆      | 1,6   | 5     | .59 .49 .39          |
| 2082505  | 206-517     | JVP    | 1,7   | 5     | .59 .49 .45          |
| 2082513  | 206-518     | JVP    | 1,8   | 5     | .59 .49 .45          |
| 2076674  | DPL-06KT    | JVP    | 1,4   | 6     | .69 .59 .49          |
| 38826    | 206-6       | JVP    | 1,5   | 6     | .89 .79 .69          |
| 2076201  | A6D-6100LP  | OMN    | 2,6   | 6     | .69 .59 .45          |
| 38834    | 206-7       | ◆      | 1,5   | 7     | .95 .89 .79          |

\*1. Standard; 2. Low Profile; 3. Right Angle; 4. Piano Style; 5. Slide Raised; 6. Slide Flush; 7. Rocker Raised; 8. Rocker Flush

JAMECO ValuePro

## Tri-State DIP Switch

- Pre-tinned leads
- Two isolated buses
- Labeled tri-state positions (+, 0, -)
- Switch contacts: bused, tri-state
- Compatible socket, use P/N 37373, pg 18

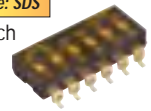


| Part No. | Cross Ref. No. | Positions | Contact Rating | 1     | 10     | 100    | 500           |
|----------|----------------|-----------|----------------|-------|--------|--------|---------------|
| 138992   | ETA108E        | 8         | 24VDC @ 25mA   | ..... | \$1.95 | \$1.75 | \$1.49 \$1.25 |

## SMT Low Profile DIP Switches

★ Web Code: SDS

- Insulation resistance: 1000MΩ (min.) across open switch & between adjacent closed switch
- Contact resistance: 100mΩ initial
- Dielectric strength: 300VAC for 1 min.
- Gold plated beryllium copper contacts, gold flash coated terminals
- Bottom seal/top tape seal
- Non-switching rating: 100mA or 50VDC max.
- Length: 0.246"



| Part No. | Manufacturer | Product No. | Positions | Type | 1     | 10     | 100           |
|----------|--------------|-------------|-----------|------|-------|--------|---------------|
| 2076199  | Grayhill     | 90HB104SR   | 4         | SPST | ..... | \$ .35 | \$ .25 \$ .19 |
| 546759   | Various      | 3-435668    | 5         | SPST | ..... | .39    | .29 .25       |
| 1945022  | Various      | SMT-6PDS    | 6         | SPST | ..... | .49    | .35 .29       |

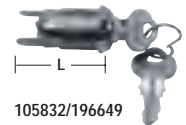
JAMECO ValuePro

## SPST Round Keylock Switches

- Used in computer and other security systems
- Mounting hole = 0.75" (except P/N 106650 = 0.5")
- Key removable from 2 positions
- 105832: All keys are different; 196649: All keys are alike
- Includes: Mounting nut

JAMECO EXCLUSIVE

★ Web Code: RAN



| Part No. | Cross Ref. No. | No. Flat, Dia. | Length | Terminal            | Voltage/Current | 1      | 10     | 100    |
|----------|----------------|----------------|--------|---------------------|-----------------|--------|--------|--------|
| 106650   | KS4B           | 2, 0.21"       | 0.55"  | Barrel              | 125VAC/3A       | \$4.55 | \$4.09 | \$3.55 |
| 105832   | KS3B           | 2, 0.66"       | 1.48"  | 0.25" quick connect | 125VAC/6A       | 4.95   | 4.49   | 3.95   |
| 196649   | 3313E-M        | 2, 0.66"       | 1.48"  | 0.25" quick connect | 125VAC/6A       | 4.95   | 4.49   | 3.95   |

\* ALC = Alcoswitch | AMP = AMP/Tyco | BNS = Bourns | C&K = C&K Switches | CTS = CTS | FJT = Fujitsu | GRY = Grayhill | JVP = Jameco ValuePro | OMN = Omron | ◆ Manufacturer Varies

★ For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

# Keypad & Tactile Switches

3 LEVELS OF SAVINGS  
NAME BRANDS HOUSE BRANDS FACTORY OVERRUN

## 12-Button Keypads

- Contact resistance: 200Ω max.

### Numeric

- 8-pin & 10-pin .100" header
- 10 pin w/ multicolor wires
- Contact rating: 12VDC @ 20mA
- Life test: 1,000,000 cycles per key
- Size: 3.0"L x 2.2"W x 0.6"H (8-pin) white
- Size: 2.5"L x 2.1"W x 0.4"H (10-pin) black

| Part No. | Description          | 1      | 10     | 100    |
|----------|----------------------|--------|--------|--------|
| 190562   | 8-pin header keypad  | \$6.95 | \$6.25 | \$4.95 |
| 2081828  | 10-pin wire keypad   | 6.95   | 6.25   | 4.95   |
| 2082206  | 10-pin header keypad | 6.95   | 6.25   | 4.95   |

### Alpha/Numeric

- 8-pin solder pad .100" header
- Contact rating: 24VDC @ 20mA
- Life test: 2,000,000 cycles per key
- Nickel metal form factor and keys
- Size: 4.36"L x 1.56"W x 0.62"H
- Recommended conn.: P/N 103191 header

| Part No. | Description | 1       | 10      | 100     |
|----------|-------------|---------|---------|---------|
| 2113455  | 2x6 keypad  | \$21.95 | \$19.95 | \$17.95 |

## 16-Button Indoor/Outdoor Keypads

- 9-pin .100" headers
- Compatible with MOS, TTL and DTL (10Ω max.)
- Contact rating: 24VDC @ 10mA resistive
- Fully sealed snap-dome contact
- Life test: 3,000,000 cycles per key
- Size (housing): 4.7"W x 1.7"H x 0.4"T
- Recommended connector: P/N 103191 header & 100766 pin, pg 81

| Part No. | Description       | 1       | 10      | 100     |
|----------|-------------------|---------|---------|---------|
| 196171   | 2x8 matrix keypad | \$14.95 | \$13.49 | \$12.49 |
| 152063   | 4x4 matrix keypad | 14.95   | 13.49   | 12.49   |

★Keypads Online — Enter Web Code XBA

## 16-Button Numeric Keypad

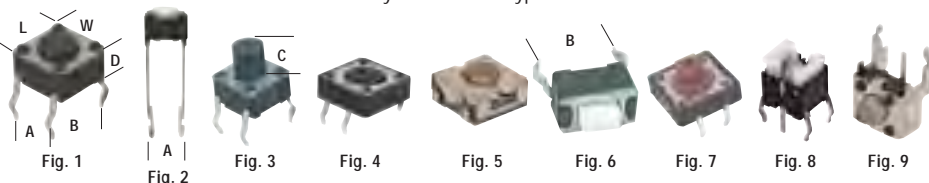
- 8-pin solder pad
- Life test: 1,000,000 life cycles per key
- 8-pin male header connector included
- Size: 3.0"L x 2.8"W x 0.6"H

| Part No. | Description | Contact Rating | Contact Resis. | 1      | 10     | 100    |
|----------|-------------|----------------|----------------|--------|--------|--------|
| 169245   | 4x4 keypad  | 24VDC @ 20mA   | 200Ω max.      | \$9.95 | \$8.95 | \$7.95 |

## Tactile Switches

★ Web Code: QBF

- Bounce time: 10 msec.
- SPST momentary ON
- Lead type: PC
- Contact resistance: 100mΩ



| Part No. | *Mfr. | Product No.     | Fig. | Pins | Dimensions (ins.) | Lead Spacing | Contact Rating | Button Color | Pricing                    |
|----------|-------|-----------------|------|------|-------------------|--------------|----------------|--------------|----------------------------|
|          |       |                 |      |      | L W D C A" B"     |              | (mA @ VDC)     |              | 1 10 100                   |
| 1586074  | PAN   | EVQ-PAG04K      | 1    | 4    | .24 .24 .14 .05   | .17          | .26            | 20 @ 12      | Black \$ .29 \$ .25 \$ .19 |
| 199726   | PAN   | EVQ11A04M       | 2    | 2    | .24 .24 .14 .03   | .20          | .17            | 20 @ 15      | White .35 .29 .25          |
| 2095120  | PAN   | EVQ11L07K       | 2    | 2    | .24 .24 .14 .11   | .20          | —              | 20 @ 15      | Black .35 .29 .25          |
| 119011   | JVP   | KTIIICM         | 1    | 4    | .24 .24 .15 .03   | .17          | .25            | 20 @ 15      | Black .29 .25 .19          |
| 149948   | JVP   | KT11P4CM        | 3    | 4    | .24 .24 .15 .13   | .17          | .25            | 20 @ 15      | Black .29 .25 .19          |
| 122973   | JVP   | EVS1212         | 4    | 4    | .47 .47 .18 —     | .20          | .50            | 20 @ 15      | Black .35 .29 .25          |
| 2076236  | PAN   | EVQPH03T        | 5    | 4    | .24 .24 .10 .02   | .15          | .26            | 20 @ 15      | Brown .59 .55 .49          |
| 155249   | JVP   | KRS-3550-BK     | 6    | 2    | .24 .14 .15 —     | —            | .27            | 50 @ 12      | Black .35 .29 .25          |
| 155256   | ♦     | KRS-3550-WH     | 6    | 2    | .24 .14 .15 .03   | —            | .26            | 50 @ 12      | White .35 .29 .25          |
| 153252   | JVP   | SDT620K         | 1    | 4    | .24 .24 .15 .06   | .17          | .25            | 50 @ 12      | Black .29 .25 .19          |
| 155380   | JVP   | KRS-1273B       | 7    | 4    | .47 .47 .14 .14   | .17          | .53            | 50 @ 12      | Brown .39 .35 .29          |
| 153251   | ESW   | TL1105-A+       | 1    | 4    | .24 .24 .15 .06   | .17          | .25            | 50 @ 12      | Black * .19 .15            |
| 202956   | ♦     | KSM06330        | 8    | 2    | .24 .24 .15 .38   | .11          | .18            | 50 @ 24      | Red * .19 .15              |
| 162886   | OMN   | B3F-1000        | 1    | 4    | .24 .24 .13 .03   | .17          | .25            | 50 @ 24      | White .29 .25 .19          |
| 1953575  | OMN   | B3F-3122        | 9    | 4    | .29 .29 .25 .06   | .17          | .28            | 50 @ 24      | Gray .29 .25 .19           |
| 2076261  | OMN   | B3E-1100-Red*   | 8    | 4    | .24 .24 .19 .07   | .17          | .25            | 50 @ 24      | Red .49 .39 .29            |
| 2076287  | OMN   | B3E-1300-Green* | 8    | 4    | .24 .24 .19 .07   | .17          | .25            | 50 @ 24      | Green .49 .39 .29          |
| 2076252  | ITT   | KSC121JB        | 5    | 4    | .24 .24 .10 —     | .15          | .26            | 50 @ 32      | Gray * .19 .15             |
| 2076148  | ♦     | KFC-A12-A       | 1    | 4    | .47 .47 .15 .08   | .17          | .50            | 100 @ 50     | Black .39 .35 .29          |

\* Illuminated

♦ See switch cap below



155389



155409

Order in multiples of 10

### Tactile Switch Caps ♦

| Part No. | *Mfr. | Cross Ref. No. | Description | Dimensions            | Material | For Use With | 10     | 100    | 1000   |
|----------|-------|----------------|-------------|-----------------------|----------|--------------|--------|--------|--------|
| 155389   | JVP   | KRS-CAP-A      | Square      | .47"L x .47"W x .16"H | Plastic  | P/N 155380   | \$ .15 | \$ .12 | \$ .09 |
| 155409   | JVP   | KRS-CAP-B      | Round       | .50"Dia. x .25"H      | Plastic  | P/N 155380   | .15    | .12    | .09    |

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## Relays

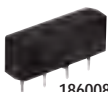
### DIP Relays

★ Web Code: QAN

- Logic control levels
- Long life with reliable operation
- Excellent for PCB applications
- Compatible with IC sockets
- Compact design/construction
- Moisture resistant



106463



1860088



2081377

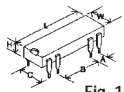


Fig. 1

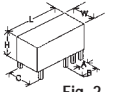


Fig. 2

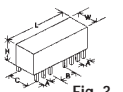
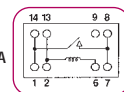
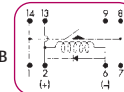


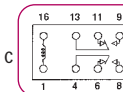
Fig. 3



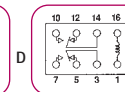
A



B



C



D

| Part No. | Manufacturer  | Product No.  | Fig. | Contact Form | Coil Voltage | Coil Ohms | Contact Voltage | Contact Current | Pins | Jameco Socket | Dimensions (L" x W" x H") | Leads (A" x B" x C") | Pricing              |
|----------|---------------|--------------|------|--------------|--------------|-----------|-----------------|-----------------|------|---------------|---------------------------|----------------------|----------------------|
|          |               |              |      |              |              |           |                 |                 |      |               |                           |                      | 1 10 100             |
| 106463   | Excel         | 201A05       | 1A   | SPST-NO      | 5VDC         | 500       | 100VDC          | 0.5A            | 8    | 37162         | .78 x .25 x .20           | .10 x .40 x .30      | \$2.49 \$2.19 \$1.95 |
| 138431   | Excel         | 2D1A05       | 1B   | SPST-NO      | 5VDC         | 500       | 100VDC          | 0.5A            | 8    | 37162         | .77 x .30 x .22           | .10 x .40 x .30      | 2.49 2.19 1.95       |
| 1860088  | Hamlin Breed  | HE3621A0510  | —    | SPST-NO      | 5VDC         | 1000      | 200VDC          | 0.5A            | 4†   | —             | .75 x .20 x .30           | .20 x .60            | 1.19 .95 .89         |
| 173914   | Aromat        | DS2YE-S-DC5V | 2C   | DPDT         | 5VDC         | 125       | 125VAC/100VDC   | 0.5A/1.25A      | 8    | 37401         | .79 x .38 x .44           | .18 x .28 x .29      | 2.19 1.95 1.75       |
| 139977   | ValuePro      | RSB5S        | 2C   | DPDT         | 5VDC         | 125       | 120VAC/30VDC    | 1A/2A           | 8    | 37373         | .79 x .39 x .37           | .20 x .40 x .30      | 2.49 2.19 1.95       |
| 2081414  | KEST          | KS2E-M-DC5   | 2C   | DPDT         | 5VDC         | 128       | 125VAC/28VDC    | 1A/2A           | 8    | 37373         | .83 x .40 x .48           | .20 x .30 x .30      | 2.49 2.19 1.95       |
| 2081377  | KEST          | KS2E-M-DC12  | 2C   | DPDT         | 12VDC        | 708       | 125VAC/28VDC    | 1A/2A           | 8    | 37373         | .83 x .40 x .48           | .20 x .30 x .30      | 2.49 2.19 1.95       |
| 99311    | Aromat (NAIS) | DS2Y-S-DC12V | 2C   | DPDT         | 12VDC        | 720       | 110VAC/30VDC    | 0.3A/1A         | 8    | 37373         | .79 x .40 x .43           | .20 x .40 x .30      | 2.49 2.19 1.95       |
| 2081406  | KEST          | KS2E-M-DC24  | 2C   | DPDT         | 24VDC        | 1440      | 125VAC/28VDC    | 1A/2A           | 8    | 37373         | .83 x .40 x .48           | .20 x .30 x .30      | 2.49 2.19 1.95       |
| 136549   | Aromat        | DS4E-M-DC5V  | 3D   | 4PDT         | 5VDC         | 62.5      | 125VAC/30VDC    | 0.6A/2A         | 14   | 112301        | 1.40 x .40 x .36          | .20 x .30 x .30      | 4.95 4.49 3.95       |

† SIP

\* ESW = E-Switch Inc. | ITT = ITT Cannon | JVP = Jameco ValuePro | OMN = Omron | PAN = Panasonic | ♦ Manufacturer Varies

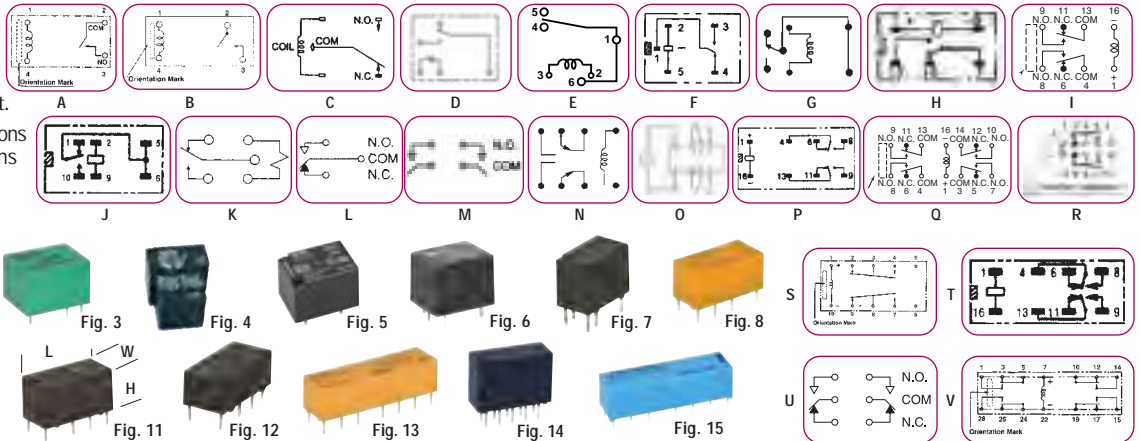
RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 197.

## Small PC Mount Relays

\*Web Code: SAV

Designed for the appliance and temperature control markets, these relays are also well suited for automotive load management.

- Mechanical life: 10 million operations
- Electrical life: 100,000 operations
- Dielectric strength: 1500V<sub>RMS</sub> (between contact and coil)



| Part No. | Manufacturer       | Mfr. Part No.       | Potter & Brumfield Cross Reference | Fig. | Contact Form | Coil Voltage | Coil (Ohms) | Contact Current | Contact Voltage | Pins | Dimensions (L" x W" x H") | Pricing |        |        |
|----------|--------------------|---------------------|------------------------------------|------|--------------|--------------|-------------|-----------------|-----------------|------|---------------------------|---------|--------|--------|
|          |                    |                     |                                    |      |              |              |             |                 |                 |      |                           | 1       | 10     | 50     |
| 2077394  | Fujitsu            | JV-3S-KT            | —                                  | 1A   | SPST-NO      | 3VDC         | 45          | 5A              | 250VAC/30VDC    | 4    | .69 x .39 x .49           | \$2.29  | \$2.09 | \$1.89 |
| 2077271  | Fujitsu            | FTR-F2AL006T        | —                                  | 1B   | SPST-NO      | 6VDC         | 145         | 5A              | 250VAC/30VDC    | 4    | .95 x .43 x .98           | 1.49    | 1.29   | 1.09   |
| 2077378  | Fujitsu            | FBR161NED006-WB     | —                                  | 2C   | SPST         | 6VDC         | 100         | 10A             | 120VAC/30VDC    | 5    | .85 x .63 x .63           | 1.49    | 1.29   | 1.09   |
| 2120217  | Bestar             | BS-114              | —                                  | 3D   | SPST         | 12VDC        | 320         | 10A             | 120VAC/30VDC    | 5    | .85 x .63 x .63           | 2.95    | 2.75   | 2.49   |
| 145753   | Rayex*             | L90A-12W            | T90S1D12-12                        | 4E   | SPST         | 12VDC        | 155         | 30A/20A         | 240VAC/28VDC    | 5    | 1.2 x 1.0 x .77           | 2.95    | 2.75   | 2.49   |
| 134949   | Rayex              | L90-5W              | T90S5D12-5                         | 4E   | SPDT         | 5VDC         | 27          | 20A             | 240VAC/28VDC    | 6    | 1.3 x 1.1 x .80           | 2.29    | 2.09   | 1.89   |
| 187151   | Omron              | G5LE-1DC5           | —                                  | 2F   | SPDT         | 5VDC         | 63          | 10A/8A          | 120VAC/30VDC    | 5    | .90 x .65 x .75           | 1.49    | 1.29   | 1.09   |
| 843155   | Panasonic          | JS1-5V              | T7C55D-05                          | 5C   | SPDT         | 5VDC         | 69.4        | 10A/5A          | 250VAC/100VDC   | 5    | .87 x .63 x .63           | 1.19    | 1.09   | .95    |
| 174450   | Rayex              | LU-5                | T81H5D215                          | 6G   | SPDT         | 5VDC         | 125         | 1A/2A           | 120VAC/24VDC    | 6    | .60 x .40 x .45           | 1.95    | 1.69   | 1.49   |
| 187418   | Omron              | G6E-134P-ST-US-DC5  | —                                  | 7H   | SPDT         | 5VDC         | 125         | .4A/2A          | 125VAC/30VDC    | 5    | .63 x .39 x .33           | 2.95    | 2.75   | 2.49   |
| 760616   | Panasonic          | DS1E-S-DC5V         | —                                  | 8I   | SPDT         | 5VDC         | 125         | 2.0A            | 125VAC/30VDC    | 5    | .59 x .39 x .39           | 3.95    | 3.49   | 2.95   |
| 187240   | Omron              | G5V-1-DC5           | T5C-105L3H                         | 7J   | SPDT         | 5VDC         | 166.7       | .5A/1A          | 125VAC/24VDC    | 6    | .50 x .30 x .40           | 2.29    | 2.09   | 1.89   |
| 454563   | Hasco              | KLTC12DC9           | —                                  | 6K   | SPDT         | 9VDC         | 225         | 12A             | 120VAC/28VDC    | 5    | .73 x .59 x .61           | 1.75    | 1.49   | 1.25   |
| 664309   | Nais (Aromat)      | JW1FSN-DC12V        | RTB14012F                          | 9L   | SPDT         | 12VDC        | 270         | 10A             | 250VAC/30VDC    | 5    | 1.13 x .51 x .79          | 2.49    | 2.25   | 1.95   |
| 144186   | Velleman           | JZC-22F             | VR15M121C                          | 6K   | SPDT         | 12VDC        | 337         | 15A             | 120VAC/28VDC    | 5    | .80 x .64 x .80           | 2.95    | 2.75   | 2.49   |
| 174432   | Rayex              | LEG-12F             | T7C55D12                           | 6K   | SPDT         | 12VDC        | 400         | 15A             | 120VAC/24VDC    | 5    | .76 x .62 x .60           | 1.89    | 1.59   | 1.49   |
| 184461   | Omron              | G5V-1-DC12          | —                                  | 7J   | SPDT         | 12VDC        | 960         | .5A/1A          | 125VAC/24VDC    | 6    | .50 x .30 x .40           | 2.29    | 2.09   | 1.89   |
| 172937   | Nais (Aromat)      | JS1-12V             | T72M5D121-12                       | 5C   | SPDT         | 12VDC        | 400         | 10A/5A          | 125VAC/24VDC    | 5    | .85 x .62 x .63           | 1.19    | 1.09   | .95    |
| 2078186  | Fujitsu            | FBR161NED012        | T7C55D-12                          | 6C   | SPDT         | 12VDC        | 400         | 10A             | 125VAC/30VAC    | 5    | .80 x .60 x .60           | 1.95    | 1.69   | 1.49   |
| 843201   | Nais (Aromat)      | JW1FSN-DC24V        | RTB14024F                          | 9C   | SPDT         | 24VDC        | 1100        | 10A/10A         | 250VAC/30VDC    | 5    | 1.11 x .49 x .78          | 1.95    | 1.69   | 1.49   |
| 187400   | Omron              | G6E-134P-ST-US-DC48 | —                                  | 7H   | SPDT         | 48VDC        | 5760        | .4A/2A          | 125VAC/30VDC    | 5    | .63 x .39 x .33           | 3.95    | 3.59   | 3.29   |
| 998190   | Panasonic          | JW2ASN-DC5V         | RTE44005F                          | 9M   | DPST         | 5VDC         | 47          | 5A/5A           | 250VAC/30VDC    | 6    | 1.13 x .50 x .79          | 1.49    | 1.29   | 1.09   |
| 215909   | Potter & Brumfield | RKA-7DZ-12          | —                                  | 7N   | DPST-NO      | 12VDC        | 270         | 5A/5A           | 250VAC/24VDC    | 6    | 1.16 x .57 x 1.05         | 1.95    | 1.69   | 1.49   |
| 15051    | Panasonic          | AGQ200A4HZ          | SMD-PKG                            | 10N  | DPDT         | 4.5VDC       | 145         | .3A/1A          | 125VAC/30VDC    | 8    | .417 x .283 x .213        | 1.49    | 1.35   | 1.19   |
| 2077255  | NEC                | EE2-4.5NUL-X        | SMD-PKG                            | 10N  | DPDT         | 4.5VDC       | 145         | .5/2A           | 125VAC/30VDC    | 8    | .59 x .30 x .35           | 1.49    | 1.29   | 1.09   |
| 2095390  | Axicom             | V23079A1011B301     | —                                  | 11O  | DPDT         | 4.5VDC       | 145         | 2A              | 250VAC/220VDC   | 10   | .57 x .28 x .39           | 1.95    | 1.75   | 1.49   |
| 2077415  | Fujitsu            | BA-5W-K             | —                                  | 12N  | DPDT         | 5VDC         | 100         | .5A/1A          | 125VAC/30VDC    | 8    | .59 x .29 x .38           | 2.19    | 1.89   | 1.49   |
| 187282   | Omron              | G6A-234PSTUSDC5     | C93416                             | 12P  | DPDT         | 5VDC         | 125         | .3A/1A          | 125VAC/30VDC    | 8    | .80 x .33 x .40           | 3.95    | 3.59   | 3.29   |
| 842953   | Panasonic          | DS2E-S-DC5V         | —                                  | 13Q  | DPDT         | 5VDC         | 125         | 2A              | 125VAC/30VDC    | 8    | .79 x .39 x .39           | 3.95    | 3.59   | 3.29   |
| 843649   | Panasonic          | TXA2SA-5V           | —                                  | 10N  | DPDT         | 5VDC         | 178         | 2A              | 30VDC           | 8    | .59 x .29 x .22           | 1.95    | 1.69   | 1.49   |
| 2081650  | NEC                | EC2-5NJ             | —                                  | 11N  | DPDT         | 5VDC         | 178         | 2A              | 220VAC/220VDC   | 8    | .59 x .30 x .37           | 2.49    | 2.25   | 1.95   |
| 15034    | Panasonic          | TN2-5VDC            | —                                  | 14R  | DPDT         | 5VDC         | 178         | .5A/1A          | 125VAC/30VDC    | 10   | .55 x .22 x .39           | 2.49    | 2.25   | 1.95   |
| 2077263  | Siemens            | V23079-F1101-B301   | SMD-PKG                            | 10N  | DPDT         | 5VDC         | 357         | 5A              | 250VAC/220VDC   | 10   | .57 x .28 x .41           | 1.95    | 1.69   | 1.49   |
| 2077386  | Fujitsu            | AL-D9W-K            | —                                  | 12S  | DPDT         | 9VDC         | 45          | .5A/1A          | 125VAC/30VDC    | 10   | .55 x .35 x .20           | 1.69    | 1.49   | 1.29   |
| 174378   | Rayex              | LM2-12D             | RKA5DZ12                           | 1N   | DPDT         | 12VDC        | 270         | 5A              | 250VAC/30VDC    | 8    | 1.2 x .48 x 1.0           | 2.49    | 2.25   | 1.95   |
| 187258   | Omron              | G5V-2-DC12          | —                                  | 11U  | DPDT         | 12VDC        | 288         | .5A/2A          | 125VAC/30VDC    | 8    | .81 x .40 x .45           | 2.85    | 2.49   | 2.19   |
| 842793   | Panasonic          | DS2E-M-DC12V        | —                                  | 13Q  | DPDT         | 12VDC        | 360         | 2A              | 125VAC/30VDC    | 8    | .79 x .39 x .39           | 2.95    | 2.75   | 2.49   |
| 842873   | Panasonic          | DS2E-ML2-DC12V      | —                                  | 8U   | DPDT         | 12VDC        | 400         | 2A              | 250VAC/220VDC   | 10   | .79 x .39 x .39           | 3.95    | 3.75   | 3.35   |
| 2078215  | Omron              | G2VN-234P-US        | —                                  | 12P  | DPDT         | 24VDC        | 1600        | .5A/1.5A        | 120VAC/30VDC    | 8    | .77 x .39 x .401          | 2.19    | 1.89   | 1.49   |
| 200740   | Omron              | G5V-2-HI            | —                                  | 11T  | DPDT         | 24VDC        | 2800        | .5A/1A          | 125VAC/24VDC    | 8    | .81 x .40 x .45           | 2.29    | 2.09   | 1.89   |
| 2078274  | Fujitsu            | FBR46D024           | —                                  | 12P  | DPDT         | 24VDC        | 2880        | .5A/1A          | 120VAC/30VDC    | 8    | .63 x .39 x .33           | 1.49    | 1.29   | 1.09   |
| 842937   | Panasonic          | DS2E-S-DC24V        | —                                  | 8I   | DPDT         | 24VDC        | 2880        | 2A              | 250VAC/220VDC   | 8    | .79 x .39 x .37           | 3.95    | 3.59   | 3.29   |
| 2077360  | Fujitsu            | RA4-12W-K           | —                                  | 15V  | 4PDT         | 12VDC        | 720         | .5A/1A          | 120VAC/24VDC    | 14   | 1.39 x .39 x .39          | 3.95    | 3.49   | 2.95   |

\*Manufacturer may vary    † SMD package    ☉ Blue Part No. = Limited Quantity Available

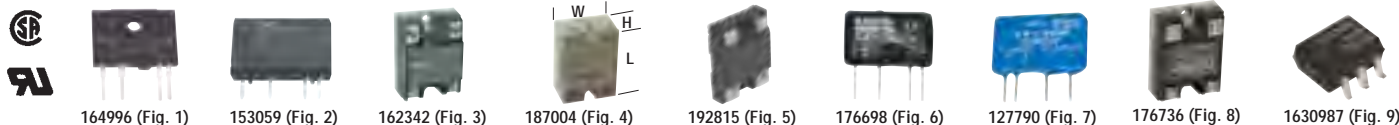
\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above



# Solid State, Enclosed & Reed Relays

3 LEVELS OF SAVINGS  
NAME BRANDS HOUSE BRANDS FACTORY OVERRUN

\* Web Code: DBA



## DC/AC and DC/DC Solid State Relays

| Part No.                      | Mfr.     | Mfr. Part No.    | Control Voltage | Type  | Contact Form | Contact Voltage | Contact Current | Pins | Fig. | Terminal Type  | Agency Approval | Dimentions<br>(L" x W" x H") | Pricing |        |        |
|-------------------------------|----------|------------------|-----------------|-------|--------------|-----------------|-----------------|------|------|----------------|-----------------|------------------------------|---------|--------|--------|
|                               |          |                  |                 |       |              |                 |                 |      |      |                |                 |                              | 1       | 10     | 50     |
| Solid State Relays DC/AC Type |          |                  |                 |       |              |                 |                 |      |      |                |                 |                              |         |        |        |
| 164988                        | Sharp    | S101S02          | 1.2VDC@20mA     | DC/AC | SPST         | 125VAC          | 1.5A            | 4    | 1    | Solder lead    | UL/CSA          | 0.9 x .16 x .63              | \$3.95  | \$3.39 | \$2.95 |
| 164996                        | Sharp    | S202TA1          | 1.2VDC@20mA     | DC/AC | SPST         | 200VAC          | 2.0A            | 4    | 1    | Solder lead    | UL/CSA          | 0.9 x .16 x .63              | 5.95    | 5.49   | 4.95   |
| 153059                        | Rayex    | RSR2ND-A24003    | 4-32VDC         | DC/AC | SPST         | 240VAC          | 3A              | 4    | 2    | Solder lead    | UL              | 1.7 x 0.4 x 2.0              | 8.95    | 7.95   | 7.49   |
| 162342                        | Excel    | ESR51024-010     | 3-32VDC         | DC/AC | SPST         | 240VAC          | 10A             | 4    | 3    | Screw terminal | UL              | 1.7 x 1.1 x 2.3              | 18.95   | 16.95  | 15.49  |
| 186992                        | Omron    | G3NA-210B-DC5-24 | 5-24VDC         | DC/AC | SPST         | 240VAC          | 10A             | 4    | 4    | Screw terminal | UL/CSA          | 1.7 x 1.1 x 2.3              | 15.95   | 14.49  | 12.95  |
| 187004                        | Omron    | G3NA-220B-DC5-24 | 5-24VDC         | DC/AC | SPST         | 240VAC          | 20A             | 4    | 4    | Screw terminal | UL/CSA          | 1.7 x 1.1 x 2.3              | 19.95   | 17.95  | 15.95  |
| 162369                        | Excel    | ESR51024-025     | 3-32VDC         | DC/AC | SPST         | 240VAC          | 25A             | 4    | 3    | Screw terminal | UL              | 1.7 x 1.1 x 2.3              | 27.95   | 24.95  | 21.95  |
| 162406                        | Excel    | ESR51024-040     | 3-32VDC         | DC/AC | SPST         | 240VAC          | 40A             | 4    | 3    | Screw terminal | UL              | 1.7 x 1.1 x 2.3              | 24.95   | 22.49  | 19.95  |
| 192815                        | COSMO    | KSD240AC8        | 4-32VDC         | DC/AC | SPST         | 250VAC          | 40A             | 4    | 5    | Screw terminal | —               | 1.8 x 0.6 x 2.3              | 19.95   | 17.95  | 15.95  |
| 175214                        | Kyoto    | KB20C02A         | 3-32VDC         | DC/AC | SPST         | 280VAC          | 2A              | 4    | 6    | Solder lead    | CE              | 1.4 x 0.3 x 1.5              | 6.95    | 5.95   | 5.49   |
| 127790                        | Crydom   | D2W202F          | 13-32VDC        | DC/AC | SPST         | 280VAC          | 2A              | 4    | 7    | Solder lead    | UL/CSA          | 1.7 x 0.4 x 1.3              | 9.95    | 8.95   | 7.95   |
| 176698                        | Kyoto    | KB20C06A         | 3-32VDC         | DC/AC | SPST         | 280VAC          | 6A              | 4    | 6    | Solder lead    | CE              | 1.4 x 0.3 x 0.9              | 10.89   | 9.79   | 8.69   |
| 176719                        | Kyoto    | KD20C40AX        | 3-32VDC         | DC/AC | SPST         | 280VAC          | 40A             | 4    | 8    | Screw terminal | UL/CE           | 1.7 x 0.9 x 2.3              | 19.95   | 17.95  | 15.95  |
| 176736                        | Kyoto    | KD20C75AX        | 3-32VDC         | DC/AC | SPST         | 280VAC          | 75A             | 4    | 8    | Screw terminal | UL/CE           | 1.7 x 0.9 x 2.3              | 34.95   | 31.49  | 28.95  |
| Solid State Relays DC/DC Type |          |                  |                 |       |              |                 |                 |      |      |                |                 |                              |         |        |        |
| 172591                        | Kyoto    | KF0602D          | 3-32VDC         | DC/DC | SPST         | 60VDC           | 2A              | 4    | 6    | Solder lead    | CE              | 1.4 x 0.3 x 0.9              | \$9.95  | \$8.95 | \$7.95 |
| 175222                        | Kyoto    | KF0604D          | 3-32VDC         | DC/DC | SPST         | 60VDC           | 4A              | 4    | 6    | Solder lead    | CE              | 1.5 x 0.3 x 0.9              | 9.95    | 8.95   | 7.95   |
| 176648                        | Kyoto    | KG1005D          | 3-32VDC         | DC/DC | SPST         | 120VDC          | 5A              | 4    | 8    | Screw terminal | CE              | 2.3 x 1.7 x 0.9              | 24.95   | 22.49  | 19.95  |
| 176655                        | Kyoto    | KG1010D          | 3-32VDC         | DC/DC | SPST         | 120VDC          | 10A             | 4    | 8    | Screw terminal | CE              | 2.3 x 1.7 x 0.9              | 24.95   | 22.49  | 19.95  |
| 1630987                       | Infineon | LH1500AAB        | —               | DC/DC | SPST         | 350VDC          | 0.15A           | 6    | 9    | SOIC-6         | UL/CSA          | .34 x .26 x .15              | 2.49    | 2.19   | 1.95   |

## OptoMOS® Solid State Relays



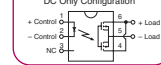
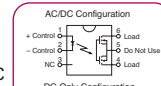
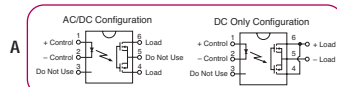
\* Web Code: WDX

Fig. 1

Fig. 2

| Part No. | Mfr. Part No. | Package | Description                | Fig. | Load Voltage (V) | Current Handling (mA) | On-Resistance (Ω) | Isolation Voltage (Vrms) | Input Control Current (mA) | Off-State Leakage (μA) | Switching Speed (on/off) (ms) | Pricing |        |        |
|----------|---------------|---------|----------------------------|------|------------------|-----------------------|-------------------|--------------------------|----------------------------|------------------------|-------------------------------|---------|--------|--------|
| 1583041  | LCA710        | DIP-6   | Single pole, 1-Form-A      | 1A   | 60               | 1000                  | 0.5               | 3750                     | 10                         | 1                      | 2.5/0.25                      | \$4.95  | \$4.49 | \$3.95 |
| 1582954  | LAA127        | DIP-8   | Dual pole, 2-Form-A        | 1B   | 250              | 200                   | 10                | 3750                     | 5                          | 1                      | 5/5                           | 4.95    | 4.49   | 3.95   |
| 1582997  | LCA110        | DIP-6   | Single pole, 1-Form-A      | 1C   | 350              | 120                   | 35                | 3750                     | 2                          | 1                      | 3/3                           | 1.85    | 1.65   | 1.49   |
| 1582989  | LBA110S       | SOIC-8  | Dual single pole, 1-Form-A | 2D   | 350              | 120                   | 35                | 3750                     | 2                          | 1                      | 3/3                           | 3.59    | 3.29   | 3.09   |
| 1582903  | LAA110        | DIP-8   | Dual single pole, 1-Form-A | 1B   | 350              | 120                   | 35                | 3750                     | 5                          | 1                      | 3/3                           | 3.49    | 3.09   | 2.75   |

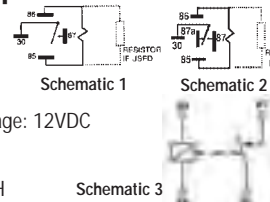
Blue Part No. = Limited Quantity Available



## Potter & Brumfield Equivalent Plastic Enclosed Construction Relays

### VF Series

- Dielectric strength: 500VDC (between contact & coil)
- Operating temp.: -35°C to +85°C
- Contact current: 40A • Coil voltage: 12VDC
- Terminal type: quick connect
- Normally open (NO)
- Dimensions: 1.1"L x 1.1"W x 1.0"H



\* Web Code: PBB



| Part No. | Mfr.    | Product No.  | P&B Cross Ref. No. | Fig. | Contact Form | Coils | Coil Voltage | Contact Schematic | Pins | Pricing |        |        |
|----------|---------|--------------|--------------------|------|--------------|-------|--------------|-------------------|------|---------|--------|--------|
| 2094178  | Sanyou  | SARL-112DMFK | VF7-41F11          | 1    | SPST-NO      | 80    | 12VDC        | 1                 | 4    | \$5.95  | \$5.49 | \$4.95 |
| 1810179  | Rayex   | LD1A-12BP    | —                  | 2    | SPST-NO      | 80    | 12VDC        | 3                 | 4    | 1.79    | 1.59   | 1.45   |
| 171460   | Rayex   | LD1A-12F     | —                  | 3    | SPST-NO      | 80    | 12VDC        | 3                 | 4    | 2.95    | 2.69   | 2.39   |
| 171442   | Rayex   | 961A-1A12D   | —                  | 2    | SPST-NO      | 80    | 12VDC        | 3                 | 4    | 2.49    | 2.19   | 1.89   |
| 171522   | Rayex   | LD5F         | VF4-45D11          | 3    | SPDT         | 14    | 5VDC         | 2                 | 5    | 1.95    | 1.75   | 1.55   |
| 148583   | Rayex   | LD12F        | VF4-85F11          | 1    | SPDT         | 78    | 12VDC        | 2                 | 5    | 2.95    | 2.59   | 2.29   |
| 2094135  | Sanyou  | SARL-112D    | VF4A-15F11         | 2    | SPDT         | 80    | 12VDC        | 2                 | 5    | 3.49    | 3.19   | 2.79   |
| 2094151  | Sanyou  | SARL-112DF   | VF45A-45F11        | 1    | SPDT         | 80    | 12VDC        | 2                 | 5    | 3.49    | 3.19   | 2.79   |
| 171433   | Various | 961A-1C-12DM | VF4-81F11          | 1    | SPDT         | 90    | 12VDC        | 2                 | 5    | 2.95    | 2.59   | 2.29   |
| 2094186  | Sanyou  | SARL-125D    | VF4A-15F11         | 2    | SPDT         | 320   | 24VDC        | 2                 | 5    | 2.95    | 2.59   | 2.29   |
| 2094194  | Sanyou  | SARL-124DF   | VF4A-45H11         | 1    | SPDT         | 320   | 24VDC        | 2                 | 5    | 3.49    | 3.19   | 2.79   |

\* PCB terminals

† Comes with a removable clip

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 197.

## Reed Type Relay

- Contact form: SPST-NO
- Terminal type: PCB Solder
- Contact voltage: 111448: 120VAC/60VDC; 2099358: 150VAC/VDC
- Coil voltage @ Contact Rating: 111448: 5VDC @ 0.25A; 2099358: 12VDC @ 0.1A
- Dimensions: 111448: 1.0"L x 0.37"W x 0.38"H; 2099358: 0.82"L x 0.25"W x 0.27"H

| Part No. | Product No. | Pins | 1      | 10     | 50     |
|----------|-------------|------|--------|--------|--------|
| 111448   | BR-1050     | 4    | \$1.95 | \$1.75 | \$1.49 |
| 2099358  | 2900-0043   | 5    | 5.95   | 5.49   | 4.95   |

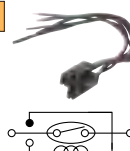
## Relay Socket with Coil Diode

### VF Series

\* Web Code: DBA

- 14 AWG: 2 black & 1 blue wire; 18 AWG: 1 black & 1 red wire (7.5" length)
- Contact voltage/current: 12V/20A
- Diode coil suppression
- Use with P/N 148583, left

| Part No. | Product No. | 1      | 10     | 50     |
|----------|-------------|--------|--------|--------|
| 170624   | RSD03       | \$2.29 | \$2.09 | \$1.89 |



For complete specifications  
visit [www.Jameco.com](http://www.Jameco.com)

## General Purpose Power Relays

| Part No. | Mfr.     | Product No.               | Contact Form | Rating        | Contact Rating    | Coil Resis. | Contact Type                                      | 1      | 10     | 50     |
|----------|----------|---------------------------|--------------|---------------|-------------------|-------------|---|--------|--------|--------|
| 454571   | Omron    | G7L-1A-TUB-CB-DC24        | SPST-NO      | 24VDC @ 79mA  | 25A, 220VAC       | 303Ω        | .250" quick connect                               | \$7.95 | \$6.95 | \$5.95 |
| 611928   | P&B      | T9AP1D52-48-03            | SPST-NO      | 48VDC @ 21mA  | 30A, 240VAC       | 2304Ω       | Quick connect : .187" for coil/.250" for contacts | 3.95   | 3.69   | 3.39   |
| 137358   | ValuePro | 953-1C12DM-R <sup>Ⓜ</sup> | SPDT         | 12VDC @ 77mA  | 20A, 240VAC/28VDC | 155Ω        | Quick connect : .110" for coil/.250" for contacts | 2.49   | 2.19   | 1.95   |
| 552462   | P&B      | PRD-7AG0-120              | DPST-NO      | 120VAC @ 85mA | 30A, 240VAC       | 290Ω        | Screw: #8-32 for main; #6-32 for contacts         | 29.95  | 27.49  | 25.95  |
| 183791   | Master   | GH-2C-12D                 | DPDT         | 12VDC @ 170mA | 30A, 240VAC       | 70Ω         | Screw down terminals                              | 12.95  | 11.49  | 10.95  |
| 551881   | P&B      | PRD-11AG0-120             | DPDT         | 240VAC @ 43mA | 30A, 240VAC       | 1200Ω       | Screw: #8-32 for main; #6-32 for contacts         | 44.95  | 39.95  | 34.95  |



## General Purpose Blade and Octal Relays

- UL/CSA approved
- Industry standard termination for quick installation
- Wide range of coil voltages for industrial and commercial applications

\*Web Code: ACF



| Part No. | *Mfr.      | Product No.                     | Fig. | Contact Form      | Coil Voltage | Contact Rating            | Coil Resis. (Ω) | Coil Current (mA) | Mating Socket* |          | Pricing |        |        |
|----------|------------|---------------------------------|------|-------------------|--------------|---------------------------|-----------------|-------------------|----------------|----------|---------|--------|--------|
|          |            |                                 |      |                   |              |                           |                 |                   | Standard       | DIN Rail | 1       | 10     | 50     |
| 2096122  | Magnecraft | 781XAXM4L-12D <sup>Ⓜ</sup>      | 1    | SPDT <sup>†</sup> | 12VDC        | 20A @ 1200VAC/28VDC       | 188             | 100               | —              | —        | \$5.95  | \$5.49 | \$4.95 |
| 282440   | P&B        | KRPA-5DG-24 <sup>Ⓜ</sup>        | 2    | SPDT              | 24VDC        | 10A @ 240VAC              | 472             | 51                | 282132         | 282159   | 17.95   | 16.95  | 15.95  |
| 2119996  | Omron      | G2R-1-E-AS1 <sup>†</sup>        | 3    | SPDT              | 24VDC        | 16A @ 250VAC; 16A @ 30VDC | 1100            | 21.8              | —              | —        | 4.95    | 4.49   | 3.95   |
| 2096131  | Magnecraft | 781XAXM4L-24A <sup>Ⓜ</sup>      | 1    | SPDT <sup>†</sup> | 24VAC        | 20A @ 120VAC/28VDC        | 180             | 100               | —              | —        | 5.95    | 5.49   | 4.95   |
| 498671   | P&B        | KUEP-11D15-12                   | 4    | DPDT              | 12VDC        | 3A @ 150VDC; 10A @ 240VAC | 80              | 150               | 282124         | 282175   | 6.95    | 6.29   | 5.75   |
| 2093079  | Omron      | LY2F-DC12 <sup>Ⓜ</sup>          | 1    | DPDT              | 12VDC        | 10A @ 24VDC; 10A @ 110VAC | 160             | 75                | PT08           | 175531   | 5.95    | 5.39   | 4.79   |
| 139766   | Rayex      | MK2P-I                          | 5    | DPDT              | 12VDC        | 10A @ 28VDC; 10A @ 240VAC | 120             | 10                | 141145         | 141145   | 6.95    | 6.29   | 5.75   |
| 282378   | P&B        | KRPA-11DG-12 <sup>Ⓜ</sup>       | 2    | DPDT <sup>G</sup> | 12VDC        | 10A @ 240VAC              | 120             | 100               | 282132         | 282159   | 11.95   | 10.95  | 9.95   |
| 172719   | ValuePro   | LB2-12DS-R <sup>Ⓜ</sup>         | 1    | DPDT              | 12VDC        | 12A @ 30VDC; 12A @ 240VAC | 160             | 75                | 175531         | 282191   | 5.95    | 5.49   | 4.95   |
| 2095875  | Magnecraft | 782XBXM4L-12D <sup>Ⓜ</sup>      | 3    | DPDT <sup>†</sup> | 12VDC        | 12A @ 28VDC; 15A @120VAC  | 160             | 100               | —              | —        | 7.95    | 7.25   | 6.49   |
| 282255   | P&B        | K10P-11D15-12 <sup>Ⓜ</sup>      | 6    | DPDT              | 12VDC        | 15A @ 30VDC; 15A @ 120VAC | 160             | 75                | 282191         | 282191   | 7.95    | 7.29   | 6.49   |
| 282386   | P&B        | KRPA-11DG-24 <sup>Ⓜ</sup>       | 2    | DPDT <sup>G</sup> | 24VDC        | 10A @ 240VAC              | 472             | 51                | 282132         | 282159   | 11.95   | 10.95  | 9.95   |
| 2095867  | Magnecraft | 782XBXM4L-24D <sup>Ⓜ</sup>      | 3    | DPDT <sup>†</sup> | 24VDC        | 12A @ 28VDC; 15A @120VAC  | 650             | 100               | —              | —        | 7.95    | 7.25   | 6.49   |
| 175565   | ValuePro   | LB2-24DS-R <sup>Ⓜ</sup>         | 1    | DPDT              | 24VDC        | 12A @ 30VDC; 12A @ 240VAC | 650             | 37                | 175531         | 282191   | 5.95    | 5.49   | 4.95   |
| 282263   | P&B        | K10P-11D15-24 <sup>Ⓜ</sup>      | 6    | DPDT              | 24VDC        | 15A @ 30VDC; 15A @ 120VAC | 650             | 37                | 282191         | 282191   | 7.95    | 7.29   | 6.49   |
| 301073   | P&B        | KRPA-11DG-110 <sup>Ⓜ</sup>      | 2    | DPDT <sup>G</sup> | 110VDC       | 10A @ 240VAC              | 10,000          | 11.5              | 282132         | 282159   | 10.95   | 9.95   | 9.49   |
| 175573   | ValuePro   | LB2-110AS <sup>Ⓜ</sup>          | 1    | DPDT <sup>G</sup> | 110VAC       | 12A @ 30VDC; 12A @ 240VAC | 3,900           | 28                | 175531         | 282191   | 6.95    | 6.29   | 5.49   |
| 139740   | Beta       | BT6-2C-J-CW-120VAC <sup>Ⓜ</sup> | 5    | DPDT              | 120VAC       | 10A @ 28VDC; 10A @ 240VAC | 1,700           | 122               | 141145         | 141145   | 6.95    | 6.29   | 5.49   |
| 2095859  | Magnecraft | 782XBXM4L120A <sup>Ⓜ</sup>      | 3    | DPDT <sup>†</sup> | 120VAC       | 12A @ 28VDC; 15A @120VAC  | 4,430           | 100               | —              | —        | 8.95    | 7.95   | 6.95   |
| 282247   | P&B        | K10P-11A15-120 <sup>Ⓜ</sup>     | 6    | DPDT              | 120VAC       | 15A @ 30VDC; 15A @ 120VAC | 3,900           | 11                | 282191         | 282191   | 7.95    | 7.29   | 6.49   |
| 282503   | P&B        | KUP-14D15-24                    | 7    | 3PDT              | 24VDC        | 10A @ 28VDC or 240VAC     | 472             | 51                | 282124         | 282175   | 9.95    | 8.95   | 8.49   |
| 301217   | P&B        | KRPA-14DN-24                    | 2    | 3PDT              | 24VDC        | 10A @ 28VDC; 6A @ 250VAC  | 472             | 51                | 282141         | 282167   | 12.95   | 11.95  | 10.95  |
| 301170   | P&B        | KRPA-14AY-120 <sup>Ⓜ</sup>      | 2    | 3PDT <sup>Y</sup> | 120VAC       | 5A @ 120VAC; 3A@240VAC    | 2,250           | 8.75              | 282141         | 282167   | 15.95   | 14.95  | 13.95  |
| 282301   | P&B        | KHAU-17D11-12 <sup>Ⓜ</sup>      | 8    | 4PDT              | 12VDC        | 3A @ 120VAC/28VDC (max)   | 160             | 100               | 496958         | 282183   | 6.95    | 6.29   | 5.75   |
| 291507   | ValuePro   | LB4H-120-R <sup>Ⓜ</sup>         | 1    | 4PDT              | 12VDC        | 5A @ 30VDC; 5A @ 240VAC   | 160             | 75                | 175557         | 175557   | 4.95    | 4.49   | 3.95   |
| 2095891  | Magnecraft | 7782XDX2M4L-12D <sup>Ⓜ</sup>    | 3    | 4PDT <sup>†</sup> | 12VDC        | 8A @ 28VDC; 10A @ 120VAC  | 160             | 100               | —              | —        | 7.95    | 7.25   | 6.49   |
| 175602   | ValuePro   | LB4H-24DS-R <sup>Ⓜ</sup>        | 1    | 4PDT              | 24VDC        | 5A @ 30VDC; 5A @ 240VAC   | 650             | 37                | 175557         | 175557   | 4.95    | 4.49   | 3.95   |
| 282319   | P&B        | KHAU-17D12-24 <sup>Ⓜ</sup>      | 8    | 4PDT              | 24VDC        | 5A @ 120VAC/28VDC (max)   | 650             | 52                | 496958         | 282183   | 6.95    | 6.29   | 5.75   |
| 2095939  | Magnecraft | 782XDX2M4L-24D <sup>Ⓜ</sup> ⚡   | 3    | 4PDT              | 24VDC        | 8A @ 28VDC; 10A @ 120VAC  | 650             | 100               | —              | —        | 7.95    | 7.25   | 6.49   |
| 282280   | P&B        | KHAU-17A11-24 <sup>Ⓜ</sup>      | 8    | 4PDT              | 24VAC        | 3A @ 120VAC/28VDC (max)   | 160             | 52                | 496958         | 282183   | 6.95    | 6.29   | 5.49   |
| 2095921  | Magnecraft | 782XDX2M4L-24A <sup>Ⓜ</sup>     | 3    | 4PDT              | 24VAC        | 8A @ 28VDC; 10A @ 120VAC  | 180             | 100               | —              | —        | 9.95    | 8.95   | 7.95   |
| 175611   | ValuePro   | LB4H-110AS-R <sup>Ⓜ</sup>       | 1    | 4PDT <sup>G</sup> | 110VAC       | 5A @ 30VDC; 5A @ 240VAC   | 3,900           | 28                | 175557         | 175557   | 4.95    | 4.49   | 3.95   |
| 2095912  | Magnecraft | 782XDX2M4L-120A <sup>Ⓜ</sup>    | 3    | 4PDT              | 120VAC       | 8A @ 28VDC; 10A @ 120VAC  | 4,430           | 100               | —              | —        | 7.49    | 6.75   | 5.95   |

\* For sockets see below † PCB G = Silver-cadmium oxide, no lamp Y = Silver contacts, no indicator lamp † = Push to test button, bi-polar LED status lamp, ID write-on label, flag indicator  
Ⓜ Blue Part No. = Limited Quantity Available

## Blade and Octal Relay Sockets

\*Web Code: TEM

| Part No. | Mfr.     | Product No.         | Relay Series  | Pins | Contact Form | Type               | 1      | 10     | 50     |
|----------|----------|---------------------|---------------|------|--------------|--------------------|--------|--------|--------|
| 141145   | Beta     | PF-083A             | BT1A1         | 8    | DPDT         | Combo <sup>†</sup> | \$3.95 | \$3.69 | \$3.39 |
| 175531   | ValuePro | 27E895 <sup>Ⓜ</sup> | K10           | 8    | DPDT         | Combo <sup>†</sup> | 3.95   | 3.69   | 3.39   |
| 282191   | P&B      | 27E895 <sup>Ⓜ</sup> | K10           | 8    | DPDT         | DIN Rail           | 4.95   | 4.79   | 4.59   |
| 282132   | P&B      | 27E122 <sup>Ⓜ</sup> | KRP/KRPA      | 8    | DPDT         | Standard           | 4.95   | 4.69   | 4.39   |
| 282167   | P&B      | 27E892 <sup>Ⓜ</sup> | KRP/KRPA      | 11   | 3PDT         | DIN Rail           | 9.95   | 8.95   | 7.95   |
| 282175   | P&B      | 27E121 <sup>Ⓜ</sup> | KUP/KUEP/KUMP | 11   | 3PDT         | Din Rail           | 10.95  | 9.95   | 8.95   |
| 282141   | P&B      | 27E123 <sup>Ⓜ</sup> | KRP/KRPA      | 11   | 3PDT         | Standard           | 6.95   | 6.29   | 5.59   |
| 282124   | P&B      | 27E121 <sup>Ⓜ</sup> | KUP/KUEP/KUMP | 11   | 3PDT         | Standard           | 6.95   | 6.29   | 5.59   |
| 175557   | ValuePro | 27E894 <sup>Ⓜ</sup> | KHUA          | 14   | 4PDT         | DIN Rail           | 3.49   | 3.19   | 2.79   |
| 282183   | P&B      | 27E894 <sup>Ⓜ</sup> | KHA/KHS/PT    | 14   | 4PDT         | DIN Rail           | 8.95   | 7.95   | 7.29   |
| 496958   | P&B      | 27E166 <sup>Ⓜ</sup> | KHA/KHUA      | 14   | 4PDT         | Standard           | 11.95  | 10.95  | 9.95   |



† Combo: DIN Rail or Screw Terminal

\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above



## CNT Series Multifunction, Digital Time Delay Relay/Counter

- Maximum count: 1 to 999; 10 to 9,990; 100 to 99,900
- Maximum count rate: 100 counts per second • DPDT
- Rating: 10A @ 30VDC or 277VAC resistive
- 11-pin octal style plug

**Power Requirement:** 10W @ 240VAC/VDC;  
5W @ 120VAC/VDC; 1W @ 24VAC/VDC

| Part No. | Mfr. Part No. | Voltage       | 1        | 5        |
|----------|---------------|---------------|----------|----------|
| 282239   | CNT-35-96     | 24-240VAC/VDC | \$119.95 | \$109.95 |



## CDB Series CMOS IC Time Delay Relay

- Timing ranges: 0.1 seconds to 180 seconds • DPDT
- Contact rating: 10A @ 30VDC or 277VAC resistive
- Electrical life: 10,000 operations min. @ rated load

**Power Requirement:** AC or DC – typically less than 3W

| Part No. | Mfr. Part No. | Voltage | Time (sec) | Pins | Price    |
|----------|---------------|---------|------------|------|----------|
| 497299   | CDB-38-70004  | 120VAC  | 0.6 – 60   | 8    | \$175.95 |



**\*Bistable, Impulse Relays Online — Enter Web Code QDR**



## Beta Electric General Purpose Relay

### BTA2 Series Quick Connect Blade Terminal

Flat terminals (0.187" x 0.020") for standard plug-in mounting; also accepts quick-connect receptacles or direct soldering.

- Contact rating: 120VAC/28VDC @ 13A; 240VAC @ 10A
- 3PDT • 11-pin • Ambient operating temperature: -30°C to +50°C
- Size: 1.5"L x 1.4"W x 2.2"H



| Part No. | Mfr. Part No. | NTE Cross Ref. | Coil Voltage | 1      | 10     |
|----------|---------------|----------------|--------------|--------|--------|
| 139854   | BTA2-3C-24VDC | R10-14D10-24   | 24VDC        | \$4.95 | \$4.49 |

**\*I/O Module Relays Online — Enter Web Code TBW**





## Quick and Easy Search

*Our enhanced website offers thousands of datasheets and photos to assist you in finding the products you need.*

## CdS Photocells

**\*Web Code: CBG**

- Generate variable signal based on detection of light levels • Cadmium Sulfide (CdS) • Operating temperature: -30°C to +70°C • Soldering: 230°C for 3 seconds
- Applications:** Auto-focus lenses, exposure meters, contrast controls for TVs, dimmer or light switches, flame detectors, electronic toys, street lamp switches, optocouplers

| <br>202438 | Part No. | Cross Ref. No. | Rating |     | Resistance (Ω) |       | Size (inches) |      | Lead Spacing (inches) | Lead Length (inches) | Pricing |        |        |        |
|--|----------|----------------|--------|-----|----------------|-------|---------------|------|-----------------------|----------------------|---------|--------|--------|--------|
|  |          |                | Vp     | mW  | Dark           | Light | A             | B    |                       |                      | 1       | 10     | 100    | 500    |
|  |          |                |        |     |                |       |               |      |                       |                      |         |        |        |        |
| <br>120299 | 202366   | CDS0029001     | 150    | 90  | 300k           | 4k    | 0.14          | 0.17 | 0.10                  | 1.02                 | \$1.49  | \$1.35 | \$1.19 | \$0.95 |
|  | 120310   | CDS0029004     | 150    | 90  | 2M             | 27k   | 0.14          | 0.17 | 0.10                  | 1.44                 | 1.49    | 1.35   | 1.19   | .95    |
|  | 202391   | CDS0029203     | 150    | 90  | 10M            | 5k    | 0.14          | 0.17 | 0.10                  | 1.02                 | 1.49    | 1.35   | 1.19   | .95    |
|  | 202382   | CDS0029008     | 150    | 90  | 20M            | 10k   | 0.14          | 0.17 | 0.10                  | 1.02                 | 1.49    | 1.35   | 1.19   | .95    |
|  | 202403   | CDS0018001     | 150    | 100 | 200k           | 3k    | 0.17          | 0.20 | 0.13                  | 1.02                 | .89     | .79    | .69    | .59    |
|  | 202420   | CDS0018003     | 150    | 100 | 500k           | 16k   | 0.17          | 0.20 | 0.13                  | 1.02                 | .99     | .89    | .79    | .69    |
|  | 202411   | CDS0018006     | 150    | 100 | 5M             | 80k   | 0.17          | 0.20 | 0.13                  | 1.02                 | .99     | .89    | .79    | .69    |
|  | 120301   | CDS0037001     | 200    | 150 | 300k           | 3k    | 0.25          | 0.29 | 0.20                  | 1.02                 | 1.79    | 1.59   | 1.45   | 1.19   |
|  | 202438   | CDS0037004     | 200    | 150 | 500k           | 15k   | 0.25          | 0.29 | 0.20                  | 1.02                 | 1.49    | 1.35   | 1.19   | .95    |
|  | 120299   | CDS0045001     | 350    | 400 | 300k           | 8k    | 0.37          | 0.43 | 0.30                  | 1.44                 | 1.79    | 1.59   | 1.45   | 1.19   |
|  | 202454   | CDS0045003     | 350    | 400 | 1M             | 12k   | 0.37          | 0.43 | 0.30                  | 1.44                 | 1.79    | 1.59   | 1.45   | 1.19   |

## NTC Thermistors

- Typical applications: temperature measurement/control/compensation; power supply fan control; PCB temperature monitoring
- Max. allowable power (@ 250°C): 0.55W
- Thermal dissipation factor: 6.5mW/°C (@ 250°C)
- Resistance value allowable difference: 10%



**\*Web Code: RBG**

| Part No. | Product No. | Resistance (Ω @ 25°C) | B Constant (25/50°C >10%) | Temp. Coef. @ 25°C (%/°C) | Pricing |        |        |
|----------|-------------|-----------------------|---------------------------|---------------------------|---------|--------|--------|
|          |             |                       |                           |                           | 1       | 10     | 100    |
| 207521   | NTC-101     | 100                   | 3100                      | -3.5                      | \$4.49  | \$3.39 | \$3.35 |
| 207511   | NTC-201     | 200                   | 3100                      | -3.5                      | .49     | .39    | .35    |
| 207483   | NTC-102     | 1k                    | 3800                      | -4.3                      | .49     | .39    | .35    |
| 207466   | NTC-302     | 3k                    | 3900                      | -4.4                      | .49     | .39    | .35    |
| 207441   | NTC-502     | 5k                    | 3900                      | -4.4                      | .49     | .39    | .35    |
| 207037   | NTC-103     | 10k                   | 4100                      | -4.6                      | .49     | .39    | .35    |
| 207002   | NTC-503     | 50k                   | 4200                      | -4.7                      | .49     | .39    | .35    |
| 206991   | NTC-104     | 100k                  | 4400                      | -4.9                      | .49     | .39    | .35    |
| 206982   | NTC-1204    | 200k                  | 4500                      | -5.1                      | .49     | .39    | .35    |



## Reed-Based Magnetic Proximity Sensor

- Hermetically sealed contacts
- Zero power consumption
- Contact resistance: 0.2Ω max.
- Suitable for AC/DC circuits
- Breakdown voltage: 200VDC min.
- Operating temp. range: -40°C to 105°C
- Max. switching voltage: 175VDC @ 0.5A
- SPST NO
- 10-watt
- Typical op. time: 0.6ms



| Part No. | Mfr. Part No. | Description     | 1      | 10     | 25     |
|----------|---------------|-----------------|--------|--------|--------|
| 513359   | MP201901      | Magnetic sensor | \$2.95 | \$2.59 | \$2.29 |



**See page 194 for Parallax Sensors and Sensor Kits**



## Actuator Magnet Speed & Proximity Sensor

- Aluminum housing
- Adjustable thread mounting stud
- Operating range: -40°C to 150°C

**\*Web Code: MAS**



| Part No. | Mfr. Part No. | Pole         | 1      | 10     |
|----------|---------------|--------------|--------|--------|
| 482370   | AS101001      | South facing | \$4.29 | \$3.95 |



## Digital Hall-Effect Magnetic Proximity Sensors

**Flange Mount** • Applications: door position sensing, flow sensing, pedal switch

- Capable of millions of operations
- Reverse battery protection to -24VDC
- Output saturation voltage max.: 400mV
- Meets IEC529 IPX5 for water protection
- Output wire: 3-wire sink
- Operating voltage range: 4.5-24VDC

513252

**\*Web Code: CCC**

| Part No. | Mfr. Part No. | Supply Curr. Max. (mA) | Output Curr. Max. (mA) | Op. Point Gauss (max.) | Rel. Point Gauss (min.) | Function        | Pricing |        |        |
|----------|---------------|------------------------|------------------------|------------------------|-------------------------|-----------------|---------|--------|--------|
|          |               |                        |                        |                        |                         |                 | 1       | 10     | 25     |
| 513252   | MP101401      | 5.2                    | 20                     | 185 (south)            | 60 (south)              | Unipolar switch | \$4.95  | \$4.49 | \$3.95 |
| 513261   | MP102103      | 12                     | 25                     | 300 (north)            | 195 (north)             | Switch          | 5.95    | 5.49   | 4.95   |

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 197.





## Inductive Proximity Switch Sensors

### Cylindrical and Square Styles

- Operating voltage range: 10-30VDC
- Normally open output
- Current consumption: 10mA max.
- Sensing distance:  $\pm 10\%$  (tin)
- Pre-tinned pigtail
- Nominal operating voltage: 12VDC
- Switching frequency: 1.5kHz
- Sensing target: inductive type - magnetic metal
- Fast response
- Short-circuit protected
- LED status indicator
- 6' long cable

\*Web Code: MAX



| Part No. | Mfr. Part No. | Output Circuit | Effec. Dist. (Iron) | Standard Target (Iron) (mm) | Dimensions (L x Dia.) | Mounting Hole (ins.) | Pricing |         |         |
|----------|---------------|----------------|---------------------|-----------------------------|-----------------------|----------------------|---------|---------|---------|
|          |               |                |                     |                             |                       |                      | 1       | 5       | 25      |
| 421147   | CS12-02N-1    | NPN            | 0-1.6mm             | 12 x 12 x 1                 | 2.2" x 0.83"          | 0.67                 | \$15.95 | \$14.95 | \$13.95 |
| 421155   | CS12-05N-1    | NPN            | 0-0.4mm             | 12 x 12 x 1                 | 2.4" x 0.88"          | 0.67                 | 15.95   | 14.95   | 13.95   |
| 167020   | TS12-02N-1    | NPN            | 0-1.6mm             | 12 x 12 x 1                 | 1.8" x 0.46"          | 0.46                 | 19.95   | 17.95   | 15.95   |
| 248858   | TS12-02P-1    | PNP            | 0-1.6mm             | 12 x 12 x 1                 | 1.8" x 0.46"          | 0.46                 | 19.95   | 17.95   | 15.95   |
| 155547   | S18-05N-1     | NPN            | 0-4.0mm             | 18 x 18 x 1                 | 1.4"Lx1.4"Wx0.7"H     | 0.112                | 11.95   | 10.95   | 9.95    |
| 421163   | CS18-05N-1    | NPN            | 0-0.4mm             | 18 x 18 x 1                 | 2.1" x 1.10"          | 0.95                 | 19.95   | 17.95   | 15.95   |
| 421171   | CS18-08N-1    | NPN            | 0-6.4mm             | 18 x 18 x 1                 | 2.4" x 1.10"          | 0.95                 | 19.95   | 17.95   | 15.95   |
| 421251   | S25-07N-1     | NPN            | 0-5.6mm             | 25 x 25 x 1                 | 1.4" x 1.50"          | 0.98                 | 15.95   | 14.95   | 13.95   |
| 421180   | CS30-10N-1    | NPN            | 0-12mm              | 30 x 30 x 1                 | 2.3" x 1.40"          | 1.40                 | 24.95   | 23.95   | 22.95   |
| 421227   | TS30-10N-1    | NPN            | 0-8.0mm             | 30 x 30 x 1                 | 2.4" x 1.10"          | 1.10                 | 24.95   | 23.95   | 22.95   |

### Photo Electric Sensor

| Part No. | Mfr. Part No. | Output | Effec. Dist. | Standard Target        | Dimensions    | Mounting | Pricing                 |
|----------|---------------|--------|--------------|------------------------|---------------|----------|-------------------------|
| 421260   | WE-T3AD       | NPN    | 0-5.0mm      | $\geq 8\text{mm}$ Dia. | 2.6" x 0.708" | 0.71     | \$36.95 \$33.95 \$31.95 |

† Light-on



## Hall-Effect Magnetic Proximity Sensor

- With Snap-Fit Mount
- Operating voltage range: 4.75-24VDC
- No mechanical contacts to wear out
- South pole sensitive or bi-polar latch
- Output saturation voltage max.: 400mV
- Output: 3-wire sink
- Solid state reliability
- Immune to dust, dirt, & moisture
- Digital output compatible with all logic families
- Operating temp. range: -40°C to 85°C
- Reverse polarity protection to -24V

\*Web Code: CCC

| Part No. | Mfr. Part No. | Supply Curr. Max. (mA) | Output Curr. Max. (mA) | Op. Point Gauss (max.) | Rel. Point Gauss (min.) | Wire       | Pricing |        |        |
|----------|---------------|------------------------|------------------------|------------------------|-------------------------|------------|---------|--------|--------|
|          |               |                        |                        |                        |                         |            | 1       | 5      | 25     |
| 513244   | MP101301      | 4                      | 25                     | 300                    | 60                      | 24AWG x 1m | \$4.95  | \$4.49 | \$3.95 |



## Magnetic Proximity Sensors

- Omnipolar, magnetically activated switch
- Hermetically sealed
- Contact resistance: 0.2 $\Omega$  max.
- Can be approached by any magnet from any angle with either pole
- Zero power consumption
- Breakdown voltage: 200VDC min.
- Operating temp. range: -40°C to 105°C

513279: Aluminum Threaded Housing • Immune to hostile environments • Suitable for AC/DC circuits

513308: Cylindrical Plastic Housing • Resistant to dirt and moisture

Blue Part No. = Limited Quantity Available

| Part No. | Mfr. Part No. | Contact Form | Power (W) | Switching Volt. Max. (VDC) | Switching Curr. Max. (A) | Op. Time Typical (ms) | Pricing |        |        |
|----------|---------------|--------------|-----------|----------------------------|--------------------------|-----------------------|---------|--------|--------|
|          |               |              |           |                            |                          |                       | 1       | 5      | 25     |
| 513279   | MP200701      | SPST NO      | 10        | 175                        | 0.5                      | 0.6                   | \$7.95  | \$7.29 | \$6.69 |
| 513308   | MP201701      | SPST NO      | 10        | 175                        | 0.5                      | 0.5                   | 2.39    | 2.15   | 1.95   |

## Fujikura Pressure Sensor

- Pressure range: 0-2.5 kPa
- Operating voltage: 5V @ <10mA
- Max. excitation voltage: 8V
- 1/8" diameter tubing is applicable
- Pressure media: non-corrosive gas
- Pre-calibration of offset volt. & span
- Maximum load pressure: twice rated pressure
- On-chip amplification and temp. compensations
- Volt-level output
- Size: .55"L x .47"W x .20"H

\*Web Code: CBF

| Part No. | Mfr. Part No.    | 1       | 5       | 25     |
|----------|------------------|---------|---------|--------|
| 196103   | XFPN-025-KPGRNW1 | \$12.95 | \$11.49 | \$9.95 |



## Pressure Sensor

Typical applications: air movement control, level indicators, leak detection, robotics and industrial controls.

- Case type: 867
- Pressure output: 0-50kPa
- Output: 4.7V
- Operating voltage: 5VDC @ 7mA
- To convert kPa to PSI: 1kPa = 0.1450377PSI

| Part No. | Mfr. Part No. | 1       | 5       | 25      |
|----------|---------------|---------|---------|---------|
| 321293   | MPX5050DP     | \$19.95 | \$18.49 | \$16.95 |

## Solid State Digital Position Sensor

- High output current capability -50mA absolute max.
- Oper. temp. range: -40°C to 150°C
- Supply volt.: 3.8VDC to 30VDC
- 3-pin SIP package
- Output type: sink
- Output current: 20mA max.
- Output leakage current: 10 $\mu$ A max.
- Oper. point 180 gauss @ 25°C
- Release point 180 gauss @ 25°C
- Supply current: 10mA max.
- Output volt.: 40mV



| Part No. | Mfr. Part No. | Type     | 1      | 10     | 100    |
|----------|---------------|----------|--------|--------|--------|
| 1915915  | SS466A        | Latching | \$1.09 | \$0.99 | \$0.85 |



## Gear Tooth Speed Sensor

### Commercial Grade Hall-Effect

- Operating voltage range: 4.5-24VDC
- Output: sink
- Output current: 25mA max.
- Supply current: 6mA max.
- Barrel length: 1.0"
- Thread: 15/32" - 32
- Wire: 20 AWG x 1m
- Reverse battery protection from 24VDC
- Operating temperature range: -40°C to 125°C
- Adjustable aluminum housing



| Part No. | Mfr. Part No. | 1       | 5       | 25      |
|----------|---------------|---------|---------|---------|
| 512401   | GS100701      | \$24.95 | \$22.95 | \$20.95 |

## Liquid Level Sensors

Combine the control box and sensor to activate a water valve. When the sensor is triggered by a tank in either full or empty condition, it will trigger an output status change.



| Part No. | Description | 1      | 5      | 25     |
|----------|-------------|--------|--------|--------|
| 176250   | 24VDC       | \$9.95 | \$7.95 | \$7.49 |
| 2119742  | 180VDC      | 16.95  | 15.95  | 15.49  |



## Membrane Sensors/Potentiometers

\*Web Code: MEM



Membrane potentiometers are resistive elements or CARBON position feedback sensors with a sealed encasement and a non-conductive simple wiper assembly that connects the top and bottom circuit. By pressing the wiper down on the top circuit to close the connection with the bottom circuit, the linear sensor produces the desired electrical output. The membrane potentiometer can also be actuated through a manual control. Typical applications are: piston driven motion sensor tracking on chairs or seats, hydraulic motion/tilts, robotics, door & window sensors, medical hand instruments and finger actuated music.

- Thinnest linear stroke sensor: <0.5mmH
- Sealed at IP65
- Simple application
- Ideal for low form factor applications
- Best priced linear stroke sensor on the market

| Part No. | Mfr. Part No. | Description | 1       | 10     |
|----------|---------------|-------------|---------|--------|
| 2082636  | SP7182        | 50mm        | \$10.95 | \$9.95 |
| 2082652  | SP7183        | 100mm       | 12.95   | 11.95  |
| 2082679  | SP7184        | 200mm       | 14.95   | 13.49  |
| 2082708  | SP7186        | 500mm       | 21.95   | 19.95  |
| 2082716  | SP7186        | Rotary      | 12.95   | 11.95  |
| 2082724  | WP7688        | Wiper       | 3.49    | 3.19   |

\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

# Load Cell Sensors & Speakers

| 3 LEVELS OF SAVINGS |              |                 |
|---------------------|--------------|-----------------|
| NAME BRANDS         | HOUSE BRANDS | FACTORY OVERRUN |



## USB Load Cell Kits

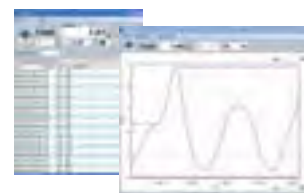
★ Web Code: **CLL**

Loadstar Sensors' award winning capacitive load cells offer unmatched ease of use in a low profile, rugged and integrated package. Our load cells offer USB output without the need for any special signal conditioning equipment. These sensors are excellent for R & D labs, universities and test facilities which need to quickly measure loads and forces, log data and visualize the data as a force vs. time plot.

• All products made in the USA • USB Load Cell software with logging/plotting features included • CE, UL & FCC Approved



**NEW**  
MARKED IN PINK



### iLoad Mini Stainless Steel Miniature USB Load Cells

- ±1% of full scale accuracy
- USB interface
- 1.25" diameter
- Draws power from USB port of PC

**Includes:** iLoad mini load cell, mini signal conditioner, LoadVUE Pro 1000 USB software and USB cable

| Part No. | Description            | Price    |
|----------|------------------------|----------|
| 2120903  | 10 lb. iLoad mini kit  | \$289.95 |
| 2120911  | 50 lb. iLoad mini kit  | 289.95   |
| 2120920  | 100 lb. iLoad mini kit | 289.95   |
| 2120938  | 200 lb. iLoad mini kit | 289.95   |

### iLoad TR Aluminum USB Load Cells

- ±0.25% of full scale accuracy
- USB interface
- 3" diameter
- Designed for off-center loading applications
- Draws power from USB port of PC

**Includes:** iLoad TR load cell, LoadVUE Pro 1000 USB software and USB cable

| Part No. | Description         | Price    |
|----------|---------------------|----------|
| 2120946  | 5 lb. iLoad TR kit  | \$389.95 |
| 2120954  | 10 lb. iLoad TR kit | 389.95   |
| 2120962  | 50 lb. iLoad TR kit | 389.95   |

### iLoad Pro Stainless Steel Industrial USB Load Cells

- ±0.25% of full scale accuracy
- USB interface
- 3.25" diameter
- Cable strain relief
- Draws power from USB port of PC

**Includes:** iLoad Pro load cell, LoadVUE Pro 1000 USB software and USB cable

| Part No. | Description            | Price    |
|----------|------------------------|----------|
| 2120971  | 100 lb. iLoad Pro kit  | \$489.95 |
| 2120989  | 250 lb. iLoad Pro kit  | 489.95   |
| 2120997  | 500 lb. iLoad Pro kit  | 489.95   |
| 2121009  | 1000 lb. iLoad Pro kit | 489.95   |

### LoadVUE Pro 1000 USB Load Cell Software

- View force/load in Pounds, Kilograms, Newtons or Ounces
- Log data to Excel friendly file at user selected intervals
- Up to 150 samples per second
- Plot data as force vs. time graph
- Periodically send force data to email address or mobile phone via SMS

**For complete specs, enter**  
★ Web Code: **CLL** **on the home**  
**page at [www.Jameco.com](http://www.Jameco.com)**

## Honeywell

### Relative Humidity Sensor

★ Web Code: **WEG**

- Linear volt. output vs %RH
- Op. temp.: -40°C to 85°C
- Accuracy (best fit straight line): ±3.5% RH
- Direct input to a controller or other device is made possible by this sensor's linear voltage output
- 3-pin SIP
- High accuracy
- Volt. supply: 4 to 5.8VDC
- Current supply: 500µA max.
- Designed specifically for high volume OEM

| Part No. | Mfr. Part No. | Description   | 1       | 5       | 25      |
|----------|---------------|---|---------|---------|---------|
| 1860248  | HH-4000-003   | 0.10" lead pitch SIP w/ calibration & data printout | \$26.95 | \$22.95 | \$21.95 |



## AVAGO Ambient Light Optical Sensor

A low-cost analog output ambient light photo sensor in a miniature chip LED lead-free surface mount package. It has a spectrally suited phototransistor, which peaks in human luminosity curve.



★ Web Code: **ZZZ**

- Supply voltage: 2.4V to 5.5V
- Oper. temp.: -40°C to 85°C
- Light current ratio: 1.2
- Fall time: 0.8 ms
- Rise time: 0.95 ms
- Dark current: 50mA

| Part No. | Product No.   | 1      | 10     | 100    |
|----------|---------------|--------|--------|--------|
| 1548511  | APDS-9002-021 | \$0.95 | \$0.85 | \$0.65 |

## Ultrasonic Sensor Sets

### Motion or Distance Sensing

- Frequency: 40kHz ±1.0kHz
- Aluminum case
- 136654: Transmit/Receive Set • Capacitance: 2000pF ±30%
- Transmitter: bandwidth 4.0kHz @ 112dB, sound pressure level 119dB @ 40±1.0kHz
- Receiver: bandwidth 3.5kHz @ -71dB, min. sensitivity 65dB @ 40±1.0kHz (R=3.9kΩ)

- 139492: Transmit/Receive Set • Capacitance: 2000pF ±20%
- Transmitter: bandwidth 5.0kHz @ 100dB, sound pressure level 112dB @ 40 ±1.0kHz
- Receiver: bandwidth 5.0kHz @ -75dB, min. sensitivity 67dB @ 40 ±1.0kHz (R=3.9kΩ)

| Part No. | Product No. | Case Size          | Lead Length/Spacing | 1      | 10     | 100    |
|----------|-------------|--------------------|---------------------|--------|--------|--------|
| 136654   | 40TR16F     | 0.47"H x 0.62"Dia. | 0.39"               | \$7.95 | \$6.95 | \$5.95 |
| 139492   | 40TR12B     | 0.30"H x 0.43"Dia. | 0.28"               | 7.95   | 6.95   | 5.95   |



★ Web Code: **CAU**

## Flex Sensor

- Max. resistance: 30kΩ to 40kΩ, proportional to the degree of flexing or bending
- Length: 4.5"
- Applications: virtual reality data gloves, robotic, bio-metric, physics and engineering

| Part No. | Nominal Res. | 1       | 10      |
|----------|--------------|---------|---------|
| 150551   | 10k          | \$12.95 | \$11.49 |

★ Web Code: **JPT**

## Piezo Transducers (Speakers)

| Part No. | Manufacturer | Product No.   | Fig. | Rated Voltage | Max. Current | Res Frequency | Sound (dB) | Dimensions (H x Dia.) | Pricing |        |        |
|----------|--------------|---------------|------|---------------|--------------|---------------|------------|-----------------------|---------|--------|--------|
|          |              |               |      |               |              |               |            |                       | 1       | 10     | 100    |
| 1956784  | Velleman     | TV4           | 1    | 1.5Vp-p       | 1.5mA        | 4kHz          | 75         | 14mm x 50mm           | \$2.95  | \$2.59 | \$2.35 |
| 1956776  | Velleman     | TV1           | 2    | 1.5Vp-p       | 1.5mA        | 4kHz          | 85         | 6mm x 30mm            | 1.95    | 1.75   | 1.59   |
| 2098540  | Kobitone     | PB220-ROX     | 3    | 3Vp-p         | 3mA          | 2kHz          | 70         | 26.5mm x 22mm         | 1.09    | .95    | .79    |
| 2098523  | Kobitone     | PB140-ROX     | 4    | 5Vp-p         | 5mA          | 4kHz          | 80         | 6.8mm x 13.8mm        | 1.29    | 1.15   | .99    |
| 2098558  | Kobitone     | PB160-ROX     | 5    | 9Vp-p         | 7mA          | 4kHz          | 80         | 4mm x 16.5mm          | 1.19    | 1.09   | .89    |
| 2098531  | Kobitone     | PB102-ROX     | 6    | 10Vp-p        | 5mA          | 3.2kHz        | 80         | 3.2mm x 10mm          | 1.29    | 1.15   | .99    |
| 2099702  | Kobitone     | 256-PB315*    | 7    | 10Vp-p        | 7mA          | 4kHz          | 82         | 7.6 mm x 17mm         | 1.29    | 1.15   | .99    |
| 2099711  | Kobitone     | 256-PB012*    | 2    | 10Vp-p        | 8mA          | 6kHz          | 88         | 4mm x 24mm            | 1.29    | 1.15   | .99    |
| 2099729  | Kobitone     | 256-PB015*    | 3    | 10Vp-p        | 9mA          | 5kHz          | 80         | 4mm x 16.5mm          | 1.29    | 1.15   | .99    |
| 2098566  | Kobitone     | AZ-3025E-W-LF | 2    | 10Vp-p        | 9mA          | 2.5kHz        | 86         | 9.5mm x 30mm          | 1.29    | 1.15   | .99    |
| 336276   | ValuePro     | PT-1250W      | 3    | 12Vp-p        | 2mA          | 4kHz          | 75         | 13mm x 30mm           | 1.49    | 1.25   | .95    |
| 336314   | ValuePro     | PT-2038FW     | 8    | 12Vp-p        | 3mA          | 4kHz          | 80         | 4.5mm x 24mm          | 1.49    | 1.25   | .95    |
| 2077280  | Panasonic    | 24C411        | 4    | 15Vp-p        | 2mA          | 4kHz          | 85         | 24mm x 6mm            | 1.49    | 1.25   | .95    |

\* Requires external drive



RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 197.

JAMECO ValuePro

## Magnetic Transducers (Speakers)

• Applied voltage: 1/2 duty, square wave

★ Web Code: JMT

| Part No. | Manufacturer | Product No. | Fig. | Oper. Volt.<br>(V/mA) | Volt.<br>Range | Frequency<br>(Hz) | Impedance<br>(Ω) | Sound<br>(dB) | Dimensions<br>(H x Dia.) | Pricing |        |        |
|----------|--------------|-------------|------|-----------------------|----------------|-------------------|------------------|---------------|--------------------------|---------|--------|--------|
|          |              |             |      |                       |                |                   |                  |               |                          | 1       | 10     | 100    |
| 207918   | ValuePro     | DB105GFPN   | 1    | 1.5/30                | 1 - 2          | 2048              | 16               | 75            | .22" x .47"              | \$ .99  | \$ .85 | \$ .69 |
| 1537408  | Various      | QMB-01      | 2    | 1.5/15                | —              | 2048              | 30               | 80            | .53" x .63"              | .99     | .85    | .69    |
| 106500   | ValuePro     | SBT-1205    | 3    | 5/40                  | 3 - 8          | 2400              | 38               | 85            | .40" x .48"              | 1.29    | 1.15   | .99    |
| 138740   | ValuePro     | DBX05-PN    | 3    | 5/40                  | 3 - 8          | 2400              | 47               | 85            | .35" x .46"              | 1.29    | 1.15   | .99    |
| 138722   | ValuePro     | DB111A-PN   | 3    | 1.5/10                | 1 - 2          | 2048              | 50               | 80            | .32" x .46"              | 1.29    | 1.15   | .99    |
| 673871   | ValuePro     | PRT-1205    | 3    | 5/40                  | 3 - 8          | 2400              | 470              | 90            | .35" x .46"              | .79     | .65    | .49    |
| 673774   | ValuePro     | SBT-1612    | 2    | 12/40                 | 6 - 18         | 2048              | 200              | 85            | .53" x .62"              | .99     | .85    | .69    |

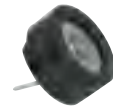


Fig. 1



Fig. 2

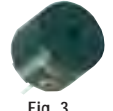


Fig. 3

KOBITONE

## Dynamic & Ceramic Earphones

★ Web Code: EHS

| Part No. | Manufacturer | Mfr. Part No. | Fig. | Type    | Impedance<br>(Ω) | Plug   | Cord<br>Length (ft.) | Color | Pricing |        |        |
|----------|--------------|---------------|------|---------|------------------|--------|----------------------|-------|---------|--------|--------|
|          |              |               |      |         |                  |        |                      |       | 1       | 10     | 100    |
| 2098460  | Kobitone     | 25DE035-ROX   | 1    | Dynamic | 8 ±20%           | 3.5mm  | 3                    | Gray  | \$1.75  | \$1.49 | \$1.25 |
| 2098443  | Kobitone     | 25DE024-ROX   | 1    | Dynamic | 8 ±20%           | 2.5mm  | 6                    | Gray  | 1.49    | 1.35   | 1.25   |
| 2098451  | Kobitone     | 25DE034-ROX   | 1    | Dynamic | 8 ±20%           | 3.5mm  | 6                    | Gray  | 1.49    | 1.35   | 1.25   |
| 2098427  | Kobitone     | 25CR035-ROX   | 2    | Ceramic | 20M min.         | 3.5mm  | 3                    | Tan   | 2.29    | 2.09   | 1.95   |
| 2098435  | Kobitone     | 25CR060-ROX   | 3    | Ceramic | 20M min.         | Tinned | 3                    | Tan   | 2.49    | 2.25   | 1.95   |



Fig. 1



Fig. 2



Fig. 3

## Piezo Buzzers (Annunciators)

★ Web Code: JPB

| Part No. | Manufacturer | Product No.   | Fig. | Tone       | Oper. Volt.<br>(V/mA) | Volt.<br>Range | Sound<br>(dB) | Freq.<br>(Hz) | Dimensions<br>(H x Dia.) | Pricing |        |        |
|----------|--------------|---------------|------|------------|-----------------------|----------------|---------------|---------------|--------------------------|---------|--------|--------|
|          |              |               |      |            |                       |                |               |               |                          | 1       | 10     | 100    |
| 2081246  | Shogyo       | SEP-2202A5    | 1    | Single     | 3/11                  | 1.5 - 6        | 85            | 3000          | 16mm x 24mm              | \$2.19  | \$1.95 | \$1.75 |
| 335557   | ValuePro     | MSR320        | 2    | Single     | 3-20/3-16             | 3 - 20         | 80            | 3400          | .39" x .91"              | 2.75    | 2.55   | 2.29   |
| 337535   | ValuePro     | SNP428        | 3    | Single     | 4-28/3-16             | 4 - 28         | 76            | 2900          | .85" x 1.64"             | 2.49    | 2.25   | 1.95   |
| 1956696  | Velleman     | SV4/5-S       | 4    | Single     | 5/25                  | 3 - 6          | 87            | 3200          | .30" x .47"              | 3.39    | 3.09   | 2.79   |
| 2081959  | Floyd Bell   | UC-05-515-P   | 5    | Single     | 5/30                  | 5 - 15         | 96            | 2100          | 1.08" x 1.40"            | 3.95    | 3.59   | 3.19   |
| 2098611  | Kobitone     | 15210-ROX     | 1    | Single     | 6/6                   | 3 - 15         | 90            | 4000          | 0.335" x 0.543"          | 3.49    | 3.15   | 2.85   |
| 336989   | ValuePro     | SC616N        | 6    | Single     | 6-16/6-22             | 6 - 16         | 95            | 2900          | 1.28" x 1.69"            | 1.95    | 1.75   | 1.55   |
| 1956741  | Velleman     | SVM06         | 7    | Single     | 6/20                  | 3 - 7          | 75            | 300-500       | .91"L x .63"W x .59"H    | 1.95    | 1.75   | 1.55   |
| 337210   | ValuePro     | SC628D        | 6    | Single     | 6-28/5-18             | 6 - 28         | 75            | 1900          | 1.25" x 1.69"            | 2.49    | 2.29   | 1.95   |
| 2098654  | Kobitone     | 35C5-ROX      | 8    | Single     | 6/40                  | 3 - 15         | 110           | 2800          | 1.02" x 1.65"            | 4.75    | 4.25   | 3.75   |
| 2098638  | Kobitone     | 27C0-ROX      | 9    | Single     | 9/8                   | 3 - 20         | 97            | 3500          | 0.552" x 1.22"           | 3.69    | 3.25   | 2.89   |
| 196357   | Various      | AL-175        | 10   | Single     | 12/5.8                | 3 - 16         | 86            | 4000          | .30" x .54"              | 1.75    | 1.49   | 1.25   |
| 1956725  | Velleman     | SV8           | 1    | Single     | 12/6                  | 3 - 16         | 85            | 4000          | .30" x .55"              | 1.95    | 1.75   | 1.59   |
| 138713   | ValuePro     | 32S4120-PN    | 10   | Single     | 12/7                  | 3 - 16         | 80            | 4000          | .30" x .54"              | 2.45    | 2.25   | 1.95   |
| 673900   | ValuePro     | SEP-1172      | 11   | — ↑        | 12/7                  | 3 - 28         | 81            | 3300          | 16mm x 31.4mm            | .95     | .85    | .69    |
| 2099690  | Kobitone     | 256-PB313     | 12   | Continuous | 12/7                  | 3 - 28         | 82            | 3600          | .413" x 1.18"            | 1.95    | 1.75   | 1.49   |
| 336639   | ValuePro     | SBM616PU      | 13   | — ↑        | 12/8                  | 3 - 28         | 90            | 2900          | 16mm x 42mm              | 1.95    | 1.69   | 1.49   |
| 673926   | ValuePro     | SEP-2202A     | 1    | Single     | 12/11                 | 3 - 20         | 85            | 3000          | 16mm x 24.2mm            | 1.49    | 1.25   | .95    |
| 1956688  | Velleman     | SV4           | 14   | Single     | 12/12                 | 4 - 15         | 90            | 2800          | .79" x 1.10"             | 1.85    | 1.65   | 1.55   |
| 1956750  | Velleman     | SVM12         | 7    | Single     | 12/15                 | 7 - 17         | 75            | 300-500       | .91"L x .63"W x .59"H    | 1.95    | 1.75   | 1.65   |
| 1956670  | Velleman     | SV2           | 15   | Single     | 12/15                 | 4 - 15         | 85            | 2800          | .57" x 1.10"             | 1.95    | 1.75   | 1.65   |
| 1956709  | Velleman     | SV4/12-S      | 4    | Single     | 12/15                 | 8 - 16         | 85            | 3200          | .30" x .47"              | 2.95    | 2.65   | 2.39   |
| 335927   | ValuePro     | PK-20A38P     | 1    | Single**   | 12/15                 | 3 - 24         | 95            | 3800          | 18mm x 23mm              | 2.95    | 2.59   | 2.29   |
| 335505   | ValuePro     | MAS800        | 16   | Single     | 12/50                 | 9 - 12         | 103           | 2800          | 15.2mm x 26mm            | 1.95    | 1.75   | 1.49   |
| 32602    | ValuePro     | 11S3240-R     | 17   | Single     | 24/15                 | 1 - 27         | 95            | 2900          | 1.4" x 1.7"              | 4.95    | 4.45   | 4.29   |
| 1956768  | Velleman     | SVM24         | 7    | Single     | 24/20                 | 16 - 30        | 75            | 300-500       | .91"L x .63"W x .59"H    | 1.95    | 1.75   | 1.59   |
| 76021    | ValuePro     | 7S3240-LA     | 17   | Single     | 24/20                 | 1.5 - 28       | 95            | 3200          | 1.0" x 1.1"              | 3.95    | 3.49   | 2.95   |
| 249498   | ValuePro     | 1103120-LF-TA | 17   | Dual*      | 12/25                 | 4 - 16         | 95            | 2900          | 34.5mm x 43.5mm          | 2.95    | 2.65   | 2.39   |
| 1956661  | Velleman     | SV1           | 18   | Dual       | 12/30                 | 1 - 13         | 105           | 2900          | 1.02" x 1.77"            | 5.49    | 4.95   | 4.49   |
| 123538   | ValuePro     | 11D3240       | 17   | Dual*      | 24/20                 | 4 - 28         | 80            | 2900          | 1.4" x 1.7"              | 4.19    | 3.79   | 3.39   |
| 336997   | ValuePro     | SC616NJ       | 17   | Pulse      | 6-16/6-22             | 6 - 16         | 95            | 2900          | 1.28" x 1.69"            | 4.95    | 4.49   | 3.95   |
| 335855   | ValuePro     | PK-12N40P     | 1    | Pulse      | 12/10                 | 3 - 15         | 83            | 4100          | 8mm x 14mm               | 2.95    | 2.59   | 2.29   |
| 2117430  | DB Products  | 7P3120LF-LA   | 19   | Pulse      | 12/10                 | 3 - 15         | 90            | 3200          | .98" x 1.10"             | 3.55    | 3.19   | 2.49   |
| 336049   | ValuePro     | PK-27N36W     | 6    | Pulse      | 12/15                 | 3 - 28         | 90            | 3500          | 10mm x 30mm              | 2.55    | 2.19   | 1.95   |

\* Continuous or Fast Pulse

\*\* Press fit: Panel hole - 27mm (1.06")

↑ Requires driver circuit



Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6



Fig. 7



Fig. 8



Fig. 9

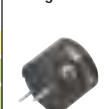


Fig. 10



Fig. 11



Fig. 12



Fig. 13



Fig. 14



Fig. 15



Fig. 16

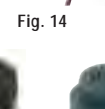


Fig. 17

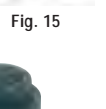


Fig. 18

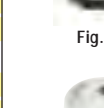


Fig. 19

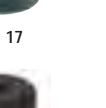


Fig. 20

Electromech

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Web Code

★ Web Code: **EPS**

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# Buzzers, Sirens & Speakers

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JAMECO ValuePro

## Mechanical/Electromechanical Buzzers

\*Web Code: MEB

| Part No. | Manufacturer | Cross Ref. No. | Fig. | Oper. Volt. (V/mA) | Voltage Range | Frequency (Hz) | Sound (dB) | Dimensions            | Pricing |        |        |
|----------|--------------|----------------|------|--------------------|---------------|----------------|------------|-----------------------|---------|--------|--------|
|          |              |                |      |                    |               |                |            |                       | 1       | 10     | 100    |
| 335370   | ValuePro     | AST200         | 1    | 3/80               | 2 - 5         | 2731           | 85         | 8.7"sq. x 4.2"H       | \$1.49  | \$1.29 | \$1.09 |
| 140695   | ValuePro     | 63S1120-LA     | 2    | 12/25              | 9 - 15        | 400            | 75         | 1.3"L x 0.7"W x 0.6"H | 1.95    | 1.59   | 1.29   |
| 335345   | ValuePro     | ASI301         | 1    | 5/30               | 4 - 7         | 2400           | 90         | .5"L x .5"W x .4"H    | .89     | .79    | .65    |
| 335353   | ValuePro     | ASI401         | 1    | 12/30              | 8 - 15        | 2400           | 90         | .5"L x .5"W x .4"H    | .89     | .79    | .65    |
| 335388   | ValuePro     | AST500         | 1    | 1.5                | 1.2 - 3       | 2400           | 85         | .5"L x .5"W x .4"H    | .85     | .75    | .59    |
| 76065    | ValuePro     | TDB05-PN       | 3    | 5/30               | 4 - 7         | 2300           | 85         | .35"H x .46"Dia.      | 2.95    | 2.75   | 2.55   |
| 24872    | ValuePro     | 63S109LA       | 2    | 9/30               | 6 - 12        | 400            | 75         | 1.3"L x 0.7"W x 0.6"H | 1.49    | 1.35   | 1.19   |

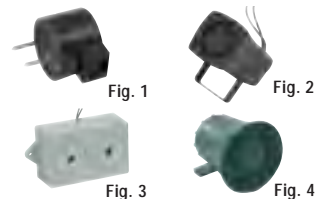


JAMECO ValuePro

## Piezo Sirens

\*Web Code: POS

| Part No. | Manufacturer | Product No. | Fig. | Oper. Volt. (V/mA) | Voltage Range | Frequency (Hz) | Sound (dB) | Dimensions            | Pricing |        |        |
|----------|--------------|-------------|------|--------------------|---------------|----------------|------------|-----------------------|---------|--------|--------|
|          |              |             |      |                    |               |                |            |                       | 1       | 10     | 100    |
| 336225   | ValuePro     | PS-562      | 1    | 12/40              | 5 - 15        | 2500/3500      | 100        | 16mm x 42mm Dia.      | \$4.95  | \$4.49 | \$3.95 |
| 207993   | ValuePro     | SL15R3120LA | 2    | 12/250             | 6 - 16        | 3500           | 105        | 2.3"L X 1.8"W X 1.6"H | 4.95    | 4.49   | 3.95   |
| 207889   | ValuePro     | 18R3120     | 3    | 12/120             | 9 - 15        | 1500/3100      | 105        | 3.4"L x 2.2"W x 1.3"H | 5.95    | 5.49   | 4.95   |
| 148152   | Various      | YC-321-1    | 4    | 12/300             | 2 - 12        | 3000           | 108        | 2.5"L x 2.8"Dia       | 7.95    | 6.95   | 5.95   |

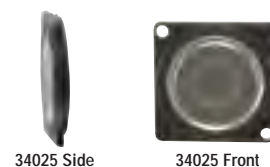


## Flat Element, Square Speakers

- Excellent for alarms or other voice uses
- Stainless steel diaphragm

\*Web Code: XAE

| Part No. | Product No. | Dimensions (Dia. x D) | Input   |         | Impedance (Ω) | Output SPL (dB) | Frequency Range (Hz) | Element Size (Dia. x H) | Pricing |        |        |
|----------|-------------|-----------------------|---------|---------|---------------|-----------------|----------------------|-------------------------|---------|--------|--------|
|          |             |                       | Nom (W) | Max (W) |               |                 |                      |                         | 1       | 10     | 100    |
| 34025    | GSP02-R     | 1.2 x 0.2             | 0.4     | 0.8     | 8             | 70              | 1300 - 8000          | 1.2 x 0.1               | \$2.25  | \$1.95 | \$1.49 |
| 76030    | AZ40S       | 1.6 x 0.2             | 0.4     | 0.8     | 8             | 70              | 600 - 6000           | 1.6 x 0.1               | 1.95    | 1.69   | 1.49   |
| 673766   | AZ50S       | 1.9 x 0.2             | 0.4     | 0.8     | 8             | 70              | 500 - 6000           | 1.9 x 0.1               | 1.75    | 1.49   | 1.19   |



## Alnico Round, Square and Rectangular Speakers

\*Web Code: EAL

| Part No. | Product No. | Fig. | Dimensions (Dia. x D) | Input   |         | Impedance (Ω) | Output SPL (dB) | Frequency Range (Hz) | Magnet Size (Dia. x H) | Pricing |        |        |
|----------|-------------|------|-----------------------|---------|---------|---------------|-----------------|----------------------|------------------------|---------|--------|--------|
|          |             |      |                       | Nom (W) | Max (W) |               |                 |                      |                        | 1       | 10     | 100    |
| 2099614  | 31204       | 1    | 4.05 x 1.6            | 1.0     | 2.0     | 4             | 95              | 300 - 1200           | 0.9 x 0.6              | \$2.95  | \$2.49 | \$1.95 |
| 135765   | RA2425      | 2    | 2.2 x 0.8             | 0.25    | 0.5     | 8             | 87              | 400 - 4000           | 0.5 x 0.4              | 1.59    | 1.45   | 1.09   |
| 88411    | A0200       | 2    | 2.0 x 0.8             | 0.2     | 0.4     | 8             | 87              | 430 - 4500           | 0.5 x 0.4              | 2.29    | 1.95   | 1.75   |
| 111588   | B0102       | 1    | 1.7 x 0.6             | 0.1     | 0.3     | 8             | 83              | 500 - 5500           | 0.5 x 0.4              | 2.39    | 2.19   | 1.95   |
| 2115442  | K7048202    | 3    | 1.6Lx2.8Wx0.9H        | 3.0     | 3.0     | 8             | 82              | 310 - 12000          | 0.87 x 0.29            | 3.95    | 3.59   | 3.19   |
| 135812   | A1527C02    | 3    | 1.6Lx2.8Wx1.2H        | 2.0     | 5.0     | 8             | 82              | 450 - 20000          | 0.5 x 0.5              | 4.49    | 3.95   | 3.59   |
| 2077301  | 25S9024     | 2    | 2.25 x 0.77           | 0.2     | 0.2     | 8             | 90              | 450 - 4000           | 0.9 x 0.8              | 1.95    | 1.69   | 1.49   |
| 1954834  | NMB-0030    | 2    | 1.8 x 0.5             | 0.5     | 1.0     | 8             | 87              | 550 - 6000           | 0.9 x 0.2              | 2.49    | 2.25   | 1.95   |
| 2081676  | FM009A      | 1    | 4.0 x 1.6             | 15.0    | 30.0    | 8             | 102             | 900 - 6000           | 2.8 x 7.3              | 3.95    | 3.59   | 3.19   |
| 1950972  | I-826-219   | 4    | 8.2Lx2.2Wx2.0H        | 1.0     | 13.0    | 8             | 95              | 30 - 20000           | 1.5 x 2.8              | 6.95    | 6.29   | 5.49   |
| 2081220  | TP-252      | 2    | 2.6 x 0.875           | 0.5     | 1.0     | 16            | 89              | 400 - 4000           | 0.9 x 0.5              | 2.49    | 2.25   | 1.95   |
| 1954826  | R11-49      | 1    | 2.9 x 1.2             | 0.5     | 1.0     | 16            | 89              | 300 - 7500           | 0.9 x 0.4              | 2.49    | 2.25   | 1.95   |
| 1954842  | 609-0033    | 3    | 3.6Lx2.0Wx1.5H        | 1.0     | 3.0     | 16            | 89              | 200 - 3000           | 0.9 x 0.7              | 2.95    | 2.59   | 2.39   |
| 1954851  | R-A162      | 1    | 4.0 x 1.5             | 1.0     | 2.0     | 16            | 89              | 200 - 3500           | 0.9 x 0.6              | 2.95    | 2.59   | 2.39   |
| 307820   | UF1082      | 5    | 1.73 x 0.275          | 0.5     | 1.0     | 40            | 80              | 200 - 6000           | 0.8 x 0.1              | 2.49    | 2.19   | 1.95   |

- For computer case use
- Paper diaphragm
- Large magnet
- Wide frequency response
- Pre-tinned solder lugs



\*Sony LCD plasma replacement speaker (actual size: 6"H x 2.15"W x 1.94"D) \*\*Indoor/outdoor mylar diaphragm (closed back) † With wire leads †† Pair of wire leads (2) 11"/10"

## Micro Round and Rectangular Speakers

\*Web Code: TBX

| Part No. | Product No.   | Dimensions (Dia. x D) | Input (W) |      | Impedance (Ω) | Magnet Size (Dia. x H) | Output SPL (dB) | Frequency Range (Hz) | Pricing |        |        |
|----------|---------------|-----------------------|-----------|------|---------------|------------------------|-----------------|----------------------|---------|--------|--------|
|          |               |                       | Nom.      | Max. |               |                        |                 |                      | 1       | 10     | 100    |
| 2099825  | H73           | 0.80 x .115           | 0.1       | 0.2  | 8             | 0.47 x 0.03            | 78              | 800 - 7000           | \$1.59  | \$1.45 | \$1.09 |
| 2099606  | SP801W        | 1.05 x 0.35           | 0.1       | 0.2  | 8             | 0.67 x 0.17            | 78              | 320 - 7500           | 1.75    | 1.49   | 1.25   |
| 2095242  | 35CS088-M75NA | 1.4Lx1.3Wx0.2H        | 0.2       | 0.3  | 8             | 0.44 x 0.10            | 80              | 550 - 6700           | 1.95    | 1.75   | 1.49   |
| 307871   | GC0401M       | 1.57 x 0.67           | 0.2       | 0.3  | 8             | 0.71 x 0.43            | 80              | 600 - 8000           | 1.49    | 1.29   | 1.09   |
| 2081191  | 5000375-00    | 2.00 x 0.34           | 0.2       | 1.5  | 8             | 0.63 x 1.14            | 85              | 600 - 3000           | 1.49    | 1.25   | .95    |
| 1956590  | TR-050F-R     | 2.00 x 0.70           | 0.5       | 1.0  | 16            | 1.25 x 0.34            | 85              | 500 - 5000           | 1.49    | 1.29   | 1.09   |
| 138861   | GC0201        | 0.80 x 0.169          | 0.1       | 0.2  | 32            | 0.26 x 0.06            | 78              | 800 - 7000           | .99     | .89    | .75    |
| 2099593  | SP452W        | 2.25 x 0.5            | 0.1       | 0.2  | 45            | 0.68 x 0.17            | 86              | 150 - 9000           | 1.95    | 1.79   | 1.59   |
| 355514   | YGD40A-50     | 1.57 x 0.40           | 0.5       | 1.0  | 50            | 0.72 x 0.43            | 89              | 600 - 5200           | 1.95    | 1.69   | 1.49   |



## 30mm PCB Mountable Speakers

- Ideal for PC board mounting
- Power (nominal/max.): 0.15W/0.2W
- Mylar diaphragm
- Solder leads

135722

| Part No. | Size (H x Dia.) | Impedance | Pin Spacing | Freq. Range | SPL (dB) | 1      | 10     | 100    |
|----------|-----------------|-----------|-------------|-------------|----------|--------|--------|--------|
| 2095234  | 0.57" x 1.24    | 8Ω        | 0.69"       | 700-4kHz    | 82       | \$1.75 | \$1.49 | \$1.25 |
| 135722   | 0.50" x 1.17"   | 8Ω        | 0.59"       | 700-5kHz    | 82       | 1.75   | 1.49   | .99    |
| 2099817  | 0.47" x 1.16"   | 100Ω      | 0.58"       | 1.1kHz ±20% | 95       | 1.95   | 1.75   | 1.49   |



## The Best Warranty in the Industry

All Jameco purchases are guaranteed for a full 90 days and even longer for Jameco House Brands.



RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 197.

## Round Ferrite Speakers

\*Web Code: TAT

| Part No. | Manufacturer | Product No. | Dimensions<br>(Dia. " x D") | Input (W) |      | Impedance<br>(Ω) | Output<br>SPL (dB) | Frequency<br>Range (Hz) | Magnet Size<br>(Dia. " x H") | Pricing |        |        |
|----------|--------------|-------------|-----------------------------|-----------|------|------------------|--------------------|-------------------------|------------------------------|---------|--------|--------|
|          |              |             |                             | Nom.      | Max. |                  |                    |                         |                              | 1       | 10     | 100    |
| 320135   | Various      | C35128A†    | 2.0 x 0.7                   | 0.2       | 0.4  | 8                | 83                 | 420 – 5000              | 1.3 x 0.4                    | \$1.49  | \$1.25 | \$1.09 |
| 135589   | Various      | FE200       | 2.0 x 0.7                   | 0.2       | 0.4  | 8                | 83                 | 420 – 5000              | 1.3 x 0.4                    | 1.95    | 1.69   | 1.49   |
| 320362   | Various      | TR-057F-R   | 2.0 x 0.7                   | 0.25      | 0.5  | 8                | 86                 | 900 – 9000              | 1.3 x 2.5                    | 1.95    | 1.69   | 1.49   |
| 10840    | Various      | FE201       | 2.2 x 0.7                   | 0.2       | 0.4  | 8                | 88                 | 400 – 4500              | 1.3 x 0.4                    | 1.95    | 1.69   | 1.49   |
| 2081254  | Star         | FR-05202-01 | 2.0 x 1.15                  | 3.0       | 5.0  | 8                | 85                 | 100 – 5000              | 1.6 x 0.5                    | 2.49    | 2.25   | 1.95   |
| 1954800  | Regal        | R-F163†     | 3.0 x 1.3                   | 1.5       | 3.0  | 16               | 89                 | 200 – 3000              | 1.8 x 0.4                    | 2.49    | 2.25   | 1.95   |
| 2099585  | Various      | RF-608E     | 2.2 x 0.7                   | 1.0       | 2.0  | 48               | 86                 | 300 – 3000              | 1.3 x 0.4                    | 2.49    | 1.95   | 1.59   |
| 2081844  | Various      | 20-220-NSR† | 2.0 x 0.7                   | 0.1       | 0.2  | 50               | 86                 | 300 – 3000              | 1.3 x 0.4                    | 2.49    | 2.25   | 1.95   |

† With lead wires

- Pre-tinned speaker lugs
- Anodized metal surfaces
- Braided copper voice coil leads
- Paper diaphragm
- Large magnet

For speaker wire,  
see page 61



320135  
Side

320135  
Back

## Square Ferrite Speakers

\*Web Code: EDT

| Part No. | Manufacturer | Product No. | Dimensions<br>(Dia. " x D") | Input (W) |      | Impedance<br>(Ω) | Output<br>SPL (dB) | Frequency<br>Range (Hz) | Magnet Size<br>(Dia. " x H") | Pricing |        |        |
|----------|--------------|-------------|-----------------------------|-----------|------|------------------|--------------------|-------------------------|------------------------------|---------|--------|--------|
|          |              |             |                             | Nom.      | Max. |                  |                    |                         |                              | 1       | 10     | 100    |
| 99996    | Various      | FEB204      | 2.6 x 0.9                   | 3.0       | 4.0  | 4                | 95                 | 300 – 14000             | 1.8 x 0.5                    | \$2.69  | \$2.39 | \$2.05 |
| 135694   | Various      | FEB200      | 2.0 x 0.7                   | 0.2       | 0.3  | 8                | 82                 | 500 – 6000              | 1.3 x 0.5                    | 1.95    | 1.69   | 1.49   |
| 2099833  | Various      | 964000-002  | 2.6 x 0.8                   | 0.2       | 0.3  | 8                | 97                 | 500 – 6000              | 1.3 x 0.4                    | 2.69    | 2.39   | 1.95   |
| 1954818  | Various      | TQ-100F-R   | 4.0 x 1.4                   | 6.0       | 8.0  | 8                | 97                 | 800 – 10000             | 1.8 x 0.5                    | 2.95    | 2.59   | 2.39   |
| 31959    | Various      | FEB216      | 2.6 x 0.8                   | 0.2       | 0.4  | 16               | 85                 | 330 – 8000              | 1.3 x 0.5                    | 2.69    | 2.39   | 2.15   |
| 2099577  | Various      | SP83W       | 3.0 x 1.5                   | 2.0       | 3.0  | 8                | 90                 | 300 – 10000             | 1.8 x 0.6                    | 2.95    | 2.59   | 1.95   |

- Pre-tinned speaker lugs
- Anodized metal surfaces
- Braided copper voice coil leads
- Paper diaphragm
- Large magnet



99996 Side

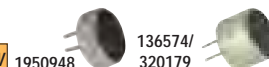
99996 Back

## Omni-Directional Electret Condenser Microphone Cartridges

Applications: Tape recorders, intercoms, hearing aids, telephone and answering devices, sonic controlled toys and sensors

\*Web Code: QBW

| Part No. | Manufacturer   | Product No. | Sensitivity | Frequency<br>(Hz) | Max. Op.<br>Volt. | Stand Op.<br>Volt. | Max.<br>Current | Sensitivity<br>Reduction | S/N<br>Ratio | Impedance | Terminals    | Size<br>(H x Dia.) | Pricing |       |       |       |
|----------|----------------|-------------|-------------|-------------------|-------------------|--------------------|-----------------|--------------------------|--------------|-----------|--------------|--------------------|---------|-------|-------|-------|
|          |                |             |             |                   |                   |                    |                 |                          |              |           |              |                    | 1       | 10    | 100   | 1000  |
| 1950948  | SPK Electronic | EM-4F-31    | -60 ±3dB    | 50-16,000         | 10VDC             | 3.0VDC             | 0.5mA           | -3dB @ 3V                | >58dB        | >2.2kΩ    | PC pin leads | .27" x .39"        | \$.89   | \$.79 | \$.69 | \$.59 |
| 136574   | ValuePro       | WM-60PC     | -54 ±2dB    | 20-12,000         | 12VDC             | 4.5VDC             | 0.5mA           | -3dB @ 3V                | >40dB        | >2.2kΩ    | PC pin leads | .30" x .38"        | .95     | .89   | .75   | .59   |
| 320179   | Various        | EM-99       | -64 ±2dB    | 20-12,000         | 12VDC             | 4.5VDC             | 0.5mA           | -3dB @ 3V                | >40dB        | >2.2kΩ    | PC pin leads | .27" x .39"        | .85     | .75   | .69   | .65   |
| 2099622  | ValuePro       | C2034A      | -46±2dB     | 20-12,000         | 12VDC             | 4.5VDC             | 0.5mA           | -3dB @ 1.5V              | 60dB         | 2.2kΩ     | PC pin leads | .27" x .37"        | .85     | .75   | .69   | .59   |



1950948

136574/  
320179

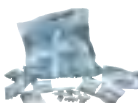
## Hardware

### Spacers & Electronic Hardware Kit

Includes 2700 pcs. (27 types) Spacers, Nuts, Flat, Tooth & Lock Washers and Slotted Pan Head Screws

SAVE \$59

| 100 each<br>Spacers | 100 each<br>Hex nuts   | 100 each<br>Flat | 100 each<br>Int. tooth | 100 each<br>Split lock | 100 each<br>PH machine screws |
|---------------------|------------------------|------------------|------------------------|------------------------|-------------------------------|
| —                   | 2-56                   | #2               | #2                     | #2                     | 2-56 x 1/4, 1/2               |
| 4-40                | 4-40                   | #4               | #4                     | #4                     | 4-40 x 1/4, 1/2               |
| 6-32                | 6-32                   | #6               | #6                     | #6                     | 6-32 x 1/4, 1/2               |
| 8-32                | 8-32                   | #8               | #8                     | #8                     | 8-32 x 1/4, 1/2               |
| Part No.            | Description            |                  | Wt. (lbs.)             |                        |                               |
| 108433              | 2700 pcs. hardware kit |                  | 7.5                    | \$99.95                | \$89.95                       |



### Thumbscrews

\*Web Code: VBZ

Aluminum • Blue P/N = Limited Quantity

| Part No. | Mfr. Part No. | Fig. | Thread | Thread Length | Length | 1     | 10    | 100   |
|----------|---------------|------|--------|---------------|--------|-------|-------|-------|
| 393976   | 7100-A        | 1    | 4-40   | 5/16"         | 5/8"   | \$.95 | \$.75 | \$.65 |
| 393992   | 7105-AL       | 1    | 6-32   | 1/2"          | 13/16" | .75   | .69   | .59   |
| 394004   | 7106-A        | 1    | 8-32   | 3/8"          | 11/16" | .75   | .69   | .59   |
| 394011   | 7107-A        | 1    | 10-32  | 1/2"          | 13/16" | .75   | .69   | .59   |
| 394063   | 7125-A        | 2    | 6-32   | 3/8"          | 9/16"  | .95   | .75   | .65   |
| 394071   | 7128-A        | 2    | 8-32   | 3/8"          | 9/16"  | .75   | .69   | .59   |

Fig. 1  
393976

Fig. 2  
394071



## Aluminum & Brass Round Spacers

\*Web Code: TBQ

• Finish: 1 = Aluminum iridite clear 2 = Brass zinc clear chromate • ID (Internal Diameter): #4 = .115"; #6 = .140" \* Order in multiples of 10

### 3/16" Outer Diameter

| Part No. | Mfr. Part No.            | Length | ID | 1     | 10    | 100   |
|----------|--------------------------|--------|----|-------|-------|-------|
| 392956   | 1107-4-B-12 <sup>2</sup> | 1/8"   | #4 | \$.29 | \$.25 | \$.19 |
| 392964   | 1108-4-B-12 <sup>2</sup> | 3/16"  | #4 | .29   | .25   | .19   |
| 392972   | 1109-4-B-12 <sup>2</sup> | 1/4"   | #4 | .29   | .25   | .19   |
| 392981   | 1110-4-B-12 <sup>2</sup> | 5/16"  | #4 | .29   | .25   | .19   |
| 392993   | 1111-4-AL-7 <sup>1</sup> | 3/8"   | #4 | *     | .19   | .15   |
| 392999   | 1111-4-B-12 <sup>2</sup> | 3/8"   | #4 | .29   | .25   | .19   |
| 393001   | 1112-4-B-12 <sup>2</sup> | 7/16"  | #4 | .35   | .29   | .25   |
| 393019   | 1113-4-B-12 <sup>2</sup> | 1/2"   | #4 | .35   | .29   | .25   |
| 393027   | 1115-4-B-12 <sup>2</sup> | 5/8"   | #4 | .39   | .35   | .29   |
| 392930   | 1116-4-A-7 <sup>1</sup>  | 11/16" | #4 | .29   | .25   | .19   |
| 393035   | 1116-4-B-12 <sup>2</sup> | 11/16" | #4 | .29   | .25   | .19   |
| 393043   | 1117-4-B-12 <sup>2</sup> | 3/4"   | #4 | .39   | .35   | .29   |

### 1/4" Outer Diameter

| Part No. | Mfr. Part No.            | Length | ID | 1 | 10    | 100   |
|----------|--------------------------|--------|----|---|-------|-------|
| 393158   | 1122-4-B-12 <sup>2</sup> | 1/8"   | #4 | * | \$.19 | \$.15 |

### 1/4" Outer Diameter (Continued)

| Part No. | Mfr. Part No.            | Length | ID | 1   | 10    | 100   |
|----------|--------------------------|--------|----|-----|-------|-------|
| 393061   | 1123-4-AL-7 <sup>1</sup> | 3/16"  | #4 | *   | \$.19 | \$.15 |
| 393166   | 1123-4-B-12 <sup>2</sup> | 3/16"  | #4 | *   | .19   | .15   |
| 393369   | 1123-6-B-12 <sup>2</sup> | 3/16"  | #6 | *   | .19   | .15   |
| 393272   | 1124-6-AL-7 <sup>1</sup> | 1/4"   | #6 | .25 | .22   | .15   |
| 393377   | 1124-6-B-12 <sup>2</sup> | 1/4"   | #6 | *   | .19   | .15   |
| 393086   | 1125-4-A-7 <sup>1</sup>  | 5/16"  | #4 | *   | .19   | .15   |
| 393182   | 1125-4-B-12 <sup>2</sup> | 5/16"  | #4 | *   | .19   | .15   |
| 393290   | 1125-6-AL-7 <sup>1</sup> | 5/16"  | #6 | *   | .19   | .15   |
| 393385   | 1125-6-B-12 <sup>2</sup> | 5/16"  | #6 | *   | .19   | .15   |
| 393095   | 1126-4-A-7 <sup>1</sup>  | 3/8"   | #4 | *   | .19   | .15   |
| 393191   | 1126-4-B-12 <sup>2</sup> | 3/8"   | #4 | *   | .19   | .15   |
| 393297   | 1126-6-A-7 <sup>1</sup>  | 3/8"   | #6 | *   | .19   | .15   |
| 393393   | 1126-6-B-12 <sup>2</sup> | 3/8"   | #6 | *   | .19   | .15   |
| 393203   | 1127-4-B-12 <sup>2</sup> | 7/16"  | #4 | *   | .19   | .15   |
| 393300   | 1127-6-A-7 <sup>1</sup>  | 7/16"  | #6 | *   | .19   | .15   |

### 1/4" Outer Diameter (Continued)

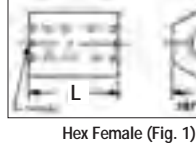
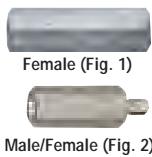
| Part No. | Mfr. Part No.            | Length | ID | 1   | 10    | 100   |
|----------|--------------------------|--------|----|-----|-------|-------|
| 393406   | 1127-6-B-12 <sup>2</sup> | 7/16"  | #6 | *   | \$.19 | \$.15 |
| 393115   | 1128-4-A-7 <sup>1</sup>  | 1/2"   | #4 | *   | .19   | .15   |
| 393211   | 1128-4-B-12 <sup>2</sup> | 1/2"   | #4 | *   | .19   | .15   |
| 393319   | 1128-6-A-7 <sup>1</sup>  | 1/2"   | #6 | *   | .19   | .15   |
| 393414   | 1128-6-B-12 <sup>2</sup> | 1/2"   | #6 | *   | .19   | .15   |
| 393123   | 1133-4-A-7 <sup>1</sup>  | 13/16" | #4 | *   | .19   | .15   |
| 393220   | 1133-4-B-12 <sup>2</sup> | 13/16" | #4 | .29 | .25   | .19   |
| 393326   | 1133-6-A-7 <sup>1</sup>  | 13/16" | #6 | *   | .19   | .15   |
| 393422   | 1133-6-B-12 <sup>2</sup> | 13/16" | #6 | .29 | .25   | .19   |
| 393131   | 1134-4-A-7 <sup>1</sup>  | 7/8"   | #4 | *   | .19   | .15   |
| 393238   | 1134-4-B-12 <sup>2</sup> | 7/8"   | #4 | .35 | .29   | .25   |
| 393335   | 1134-6-A-7 <sup>1</sup>  | 7/8"   | #6 | *   | .19   | .15   |
| 393431   | 1134-6-B-12 <sup>2</sup> | 7/8"   | #6 | .39 | .35   | .29   |
| 393140   | 1136-4-A-7 <sup>1</sup>  | 1.0"   | #4 | *   | .19   | .15   |
| 393246   | 1136-4-B-12 <sup>2</sup> | 1.0"   | #4 | .39 | .35   | .29   |
| 393449   | 1136-6-B-12 <sup>2</sup> | 1.0"   | #6 | .45 | .39   | .35   |

\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

## .187"/.250" Aluminum, Brass & Steel Hex Threaded Standoffs

\*Web Code: TBQ

- Finish:
- 1 Brass (plain)
- 2 Aluminum iridite (clear)
- 3 Brass bright tin plate
- 4 Stainless steel
- 5 Brass zinc clear chromate



### Hex Female Standoffs

\* Order in multiples of 10

#### .187" Hex 4-40 Thread (Fig. 1)

| Part No. | *Mfr. | Product No.              | Length of L | Pricing |        |        |
|----------|-------|--------------------------|-------------|---------|--------|--------|
|          |       |                          |             | 1       | 10     | 100    |
| 175636   | ◆     | 2052-440S0 <sup>1</sup>  | .187"       | \$ .25  | \$ .22 | \$ .15 |
| 133613   | RAF   | 2053-440AL7 <sup>2</sup> | .250"       | .29     | .25    | .19    |
| 102796   | JVP   | 14-552 <sup>3</sup>      | .250"       | .35     | .29    | .25    |
| 133640   | RAF   | 2057-440AL7 <sup>2</sup> | .500"       | .39     | .35    | .25    |
| 139792   | RAF   | 2058-440AL7 <sup>2</sup> | .563"       | .29     | .25    | .19    |
| 133648   | RAF   | 2059-440AL7 <sup>2</sup> | .625"       | .29     | .25    | .19    |
| 133656   | RAF   | 2061-440AL7 <sup>2</sup> | .750"       | .39     | .35    | .29    |
| 139185   | RAF   | 2065-440AL7 <sup>2</sup> | 1.00"       | .55     | .49    | .35    |

#### .250" Hex 4-40 Thread (Fig. 1)

| Part No. | *Mfr. | Product No.               | Length of L | Pricing |        |        |
|----------|-------|---------------------------|-------------|---------|--------|--------|
|          |       |                           |             | 1       | 10     | 100    |
| 139193   | RAF   | 2100-440A7 <sup>2</sup>   | .250"       | \$ .25  | \$ .22 | \$ .15 |
| 1944353  | ◆     | 4-40BHEX <sup>1</sup>     | .250"       | * .08   | .07    |        |
| 77501    | RAF   | 2102-440AL7 <sup>2</sup>  | .375"       | .29     | .25    | .19    |
| 393693   | RAF   | 2102-440B12 <sup>5</sup>  | .375"       | .59     | .55    | .35    |
| 134763   | RAF   | 2103-440AL7 <sup>2</sup>  | .437"       | .39     | .35    | .19    |
| 393705   | RAF   | 2103-440B12 <sup>5</sup>  | .437"       | *       | .19    | .15    |
| 108371   | RAF   | 2104-440AL7 <sup>2</sup>  | .500"       | .45     | .39    | .25    |
| 393713   | RAF   | 2104-440B1 <sup>5</sup>   | .500"       | .35     | .29    | .25    |
| 77519    | RAF   | 2106-440AL7 <sup>2</sup>  | .625"       | .49     | .45    | .25    |
| 393721   | RAF   | 2106-440B12 <sup>5</sup>  | .625"       | .35     | .29    | .25    |
| 133605   | RAF   | 2108-440AL7 <sup>2</sup>  | .750"       | .45     | .39    | .25    |
| 393731   | RAF   | 2108-440B12 <sup>5</sup>  | .750"       | .49     | .45    | .39    |
| 1944370  | ◆     | .2504-40BHEX <sup>1</sup> | .750"       | * .08   | .07    |        |
| 139205   | RAF   | 2112-440A7 <sup>2</sup>   | 1.00"       | .29     | .25    | .19    |
| 393749   | RAF   | 2112-440B12 <sup>5</sup>  | 1.00"       | .49     | .45    | .39    |
| 387401   | RAF   | 2148-440A7 <sup>2</sup>   | 6.00"       | 1.95    | 1.75   | 1.49   |
| 387428   | RAF   | 2152-440A7 <sup>2</sup>   | 7.00"       | 2.95    | 2.49   | 2.25   |
| 387444   | RAF   | 2156-440A7 <sup>2</sup>   | 8.00"       | 2.95    | 2.49   | 2.25   |
| 387452   | RAF   | 2160-440A7 <sup>2</sup>   | 9.00"       | 2.95    | 2.49   | 2.25   |
| 387461   | RAF   | 2164-440-A7 <sup>2</sup>  | 10.0"       | 2.95    | 2.49   | 2.25   |

#### .250" Hex 6-32 Thread (Fig. 1)

| Part No. | *Mfr. | Product No.                | Length of L | Pricing |        |        |
|----------|-------|----------------------------|-------------|---------|--------|--------|
|          |       |                            |             | 1       | 10     | 100    |
| 77535    | RAF   | 2100-632AL7 <sup>2</sup>   | .250"       | \$ .29  | \$ .25 | \$ .19 |
| 1582398  | ◆     | 6-32BHEX <sup>1</sup>      | .250"       | * .08   | .07    |        |
| 133591   | RAF   | 2102-632A7 <sup>2</sup>    | .375"       | .29     | .25    | .19    |
| 1582400  | ◆     | 6-32BHEXF <sup>1</sup>     | .375"       | * .08   | .07    |        |
| 77543    | RAF   | 2104-632AL7 <sup>2</sup>   | .500"       | .29     | .25    | .19    |
| 393772   | RAF   | 2104-632B12 <sup>5</sup>   | .500"       | .35     | .29    | .25    |
| 77552    | RAF   | 2106-632AL7 <sup>2</sup>   | .625"       | .45     | .39    | .25    |
| 77570    | RAF   | 2108-632AL7 <sup>2</sup>   | .750"       | .45     | .39    | .25    |
| 77578    | RAF   | 2112-632AL7 <sup>2</sup>   | 1.00"       | .49     | .45    | .29    |
| 1944388  | ◆     | .250.6-32BHEX <sup>1</sup> | 1.00"       | * .08   | .07    |        |
| 143407   | RAF   | 2120-632A7 <sup>2</sup>    | 1.50"       | .59     | .55    | .39    |
| 393811   | RAF   | 2120-632B12 <sup>5</sup>   | 1.50"       | .75     | .69    | .65    |

### Ceramic Donut Magnet

- For science, fridge or projects
- Size: 1.23" Dia. x 0.19" Thick • Center hole: .375" Dia.

| Part No. | Product No. | 1      | 10     | 100    |
|----------|-------------|--------|--------|--------|
| 109031   | CDM         | \$ .49 | \$ .39 | \$ .25 |

#### .250" Hex 6-32 Thread (Fig. 1) (Continued)

| Part No. | *Mfr. | Mfr Part No.             | Length of L | Pricing |        |        |
|----------|-------|--------------------------|-------------|---------|--------|--------|
|          |       |                          |             | 1       | 10     | 100    |
| 143441   | RAF   | 2124-632AL7 <sup>2</sup> | 1.75"       | \$ .79  | \$ .69 | \$ .55 |
| 387495   | RAF   | 2140-632A7 <sup>2</sup>  | 4.00"       | 1.95    | 1.75   | 1.49   |
| 387508   | RAF   | 2144-632A7 <sup>2</sup>  | 5.00"       | 1.95    | 1.75   | 1.49   |
| 387516   | RAF   | 2148-632A7 <sup>2</sup>  | 6.00"       | 2.95    | 2.49   | 2.25   |
| 387524   | RAF   | 2152-632A7 <sup>2</sup>  | 7.00"       | 2.95    | 2.49   | 2.25   |
| 387532   | RAF   | 2156-632A7 <sup>2</sup>  | 8.00"       | 2.95    | 2.49   | 2.25   |
| 387541   | RAF   | 2160-632A7 <sup>2</sup>  | 9.00"       | 2.95    | 2.49   | 2.25   |
| 387559   | RAF   | 2164-632A7 <sup>2</sup>  | 10.0"       | 2.95    | 2.49   | 2.25   |

#### .250" Hex 8-32 Thread (Fig. 1)

| Part No. | *Mfr. | Mfr Part No.            | Length of L | Pricing |        |        |
|----------|-------|-------------------------|-------------|---------|--------|--------|
|          |       |                         |             | 1       | 10     | 100    |
| 387567   | RAF   | 2100-832A7 <sup>2</sup> | .250"       | *       | \$ .19 | \$ .15 |
| 387575   | RAF   | 2102-832A7 <sup>2</sup> | .375"       | *       | .19    | .15    |
| 387639   | RAF   | 2124-832A7 <sup>2</sup> | 1.75"       | 1.49    | 1.35   | 1.19   |
| 387663   | RAF   | 2140-832A7 <sup>2</sup> | 4.00"       | 1.95    | 1.75   | 1.49   |
| 387671   | RAF   | 2144-832A7 <sup>2</sup> | 5.00"       | 1.95    | 1.75   | 1.49   |
| 387680   | RAF   | 2148-832A7 <sup>2</sup> | 6.00"       | 2.95    | 2.49   | 2.25   |
| 387698   | RAF   | 2152-832A7 <sup>2</sup> | 7.00"       | 2.95    | 2.49   | 2.25   |
| 387701   | RAF   | 2156-832A7 <sup>2</sup> | 8.00"       | 2.95    | 2.49   | 2.25   |
| 387719   | RAF   | 2160-832A7 <sup>2</sup> | 9.00"       | 2.95    | 2.49   | 2.25   |
| 387727   | RAF   | 2164-832A7 <sup>2</sup> | 10.0"       | 2.95    | 2.49   | 2.25   |

#### .250" Hex 10-32 Thread (Fig. 1)

| Part No. | *Mfr. | Mfr Part No.             | Length of L | Pricing |        |        |
|----------|-------|--------------------------|-------------|---------|--------|--------|
|          |       |                          |             | 1       | 10     | 100    |
| 387735   | RAF   | 2100-1032A7 <sup>2</sup> | .250"       | \$ .95  | \$ .85 | \$ .75 |
| 387743   | RAF   | 2102-1032A7 <sup>2</sup> | .375"       | .95     | .85    | .75    |
| 387807   | RAF   | 2124-1032A7 <sup>2</sup> | 1.75"       | 1.49    | 1.35   | 1.19   |
| 387840   | RAF   | 2144-1032A7 <sup>2</sup> | 5.00"       | 1.95    | 1.75   | 1.49   |
| 387858   | RAF   | 2148-1032A7 <sup>2</sup> | 6.00"       | 2.49    | 2.25   | 1.95   |
| 387866   | RAF   | 2152-1032A7 <sup>2</sup> | 7.00"       | 2.49    | 2.25   | 1.95   |
| 387874   | RAF   | 2156-1032A7 <sup>2</sup> | 8.00"       | 2.95    | 2.49   | 2.25   |
| 387882   | RAF   | 2160-1032A7 <sup>2</sup> | 9.00"       | 2.95    | 2.49   | 2.25   |
| 387891   | RAF   | 2164-1032A7 <sup>2</sup> | 10.0"       | 2.95    | 2.49   | 2.25   |

### .250" Round Threaded Standoffs

\*Web Code: TBQ

- Aluminum or Brass † Finish: Iridite (clear); <sup>1</sup> per MIL-C-5541-D; <sup>2</sup> brass (plain)

#### .250" Round 4-40 Thread Female

\* Order in multiples of 10

| Part No. | *Mfr. | Metal†             | Length | Pricing |        |        |
|----------|-------|--------------------|--------|---------|--------|--------|
|          |       |                    |        | 1       | 10     | 100    |
| 1945102  | ◆     | Alum <sup>1</sup>  | .250"  | \$ .45  | \$ .39 | \$ .25 |
| 1944468  | ◆     | Brass <sup>2</sup> | .250"  | * .08   | .07    |        |
| 1944564  | ◆     | Alum <sup>1</sup>  | .500"  | .35     | .29    | .25    |
| 1944476  | ◆     | Brass <sup>2</sup> | .500"  | * .08   | .07    |        |
| 1945129  | ◆     | Alum <sup>1</sup>  | .750"  | * .08   | .07    |        |
| 1944484  | ◆     | Brass <sup>2</sup> | .750"  | * .08   | .07    |        |
| 1944599  | ◆     | Alum <sup>1</sup>  | 1.00"  | .55     | .49    | .39    |

#### .250" Round 6-32 Thread Female

\* Order in multiples of 10

| Part No. | *Mfr. | Metal†             | Length | Pricing |     |     |
|----------|-------|--------------------|--------|---------|-----|-----|
|          |       |                    |        | 1       | 10  | 100 |
| 1944610  | ◆     | Alum <sup>1</sup>  | .250"  | * .15   | .12 |     |
| 1944492  | ◆     | Brass <sup>2</sup> | .250"  | * .08   | .07 |     |
| 1944628  | ◆     | Alum <sup>1</sup>  | .375"  | * .15   | .12 |     |
| 1944505  | ◆     | Brass <sup>2</sup> | .375"  | * .08   | .07 |     |
| 1945145  | ◆     | Alum <sup>1</sup>  | .500"  | .39     | .35 | .29 |
| 1944521  | ◆     | Brass <sup>2</sup> | .500"  | * .08   | .07 |     |
| 1944644  | ◆     | Alum <sup>1</sup>  | .750"  | .29     | .25 | .19 |
| 1944652  | ◆     | Alum <sup>1</sup>  | 1.00"  | * .08   | .07 |     |

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\* RAF = RAF Electronic Hardware | KEY = Keystone | ◆ Manufacturer Varies

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 197.



★ Web Code: BAG

## SAE Hardware

• Zinc-plated steel

### Slotted Pan Head Machine Screws

| Part No. | Screw Size | Thread | Length (in.) | 100 piece multiples |        |
|----------|------------|--------|--------------|---------------------|--------|
|          |            |        |              | 100                 | 1000   |
| 38173    | 2-56       | Std    | .250         | \$ .05              | \$ .04 |
| 2094320  | 2-56       | Std    | .375         | .05                 | .04    |
| 2094338  | 2-56       | Std    | .500         | .05                 | .04    |
| 40952    | 4-40       | Std    | .250         | .04                 | .03    |
| 40970    | 4-40       | Std    | .375         | .04                 | .03    |
| 106810   | 4-40       | Std    | .500         | .04                 | .03    |
| 106543   | 6-32       | Std    | .250         | .04                 | .03    |
| 42446    | 6-32       | Std    | .375         | .04                 | .03    |
| 42438    | 6-32       | Std    | .500         | .04                 | .03    |
| 2094346  | 8-32       | Std    | .250         | .06                 | .05    |
| 106817   | 8-32       | Std    | .375         | .06                 | .05    |
| 106797   | 8-32       | Std    | .500         | .06                 | .05    |

### Phillips Pan Head Machine Screws

| Part No. | Screw Size | Thread | Length (in.) | 100 piece multiples |        |
|----------|------------|--------|--------------|---------------------|--------|
|          |            |        |              | 100                 | 1000   |
| 2094354  | 2-56       | Std    | .250         | \$ .05              | \$ .04 |
| 2094362  | 2-56       | Std    | .375         | .05                 | .04    |
| 2094371  | 2-56       | Std    | .500         | .05                 | .04    |
| 2094389  | 4-40       | Std    | .250         | .04                 | .03    |
| 2094397  | 4-40       | Std    | .375         | .04                 | .03    |
| 2094400  | 4-40       | Std    | .500         | .04                 | .03    |
| 2094418  | 6-32       | Std    | .250         | .04                 | .03    |
| 2094426  | 6-32       | Std    | .375         | .04                 | .03    |
| 2094434  | 6-32       | Std    | .500         | .04                 | .03    |
| 2094442  | 8-32       | Std    | .250         | .06                 | .05    |
| 2094451  | 8-32       | Std    | .375         | .06                 | .05    |
| 2094469  | 8-32       | Std    | .500         | .06                 | .05    |

### Phillips Round Head Machine Screws

| Part No. | Screw Size | Thread | Length (in.) | 100 piece multiples |        |
|----------|------------|--------|--------------|---------------------|--------|
|          |            |        |              | 100                 | 1000   |
| 2095111  | 6-32       | Std    | .197         | \$ .04              | \$ .03 |
| 2082978  | 6-32       | Std    | .250         | .04                 | .03    |

### Phillips Button Head Sheet Metal Screws

| Part No. | Screw Size | Thread | Length (in.) | 100 piece multiples |        |
|----------|------------|--------|--------------|---------------------|--------|
|          |            |        |              | 100                 | 1000   |
| 2100072  | 8          | Std.   | .375         | \$ .05              | \$ .04 |
| 2100101  | 6          | Std    | .375         | .05                 | .04    |

## Miscellaneous Hardware



| Part No. | Description   | * Order in multiples of 10 |        |     |
|----------|---|----------------------------|--------|-----|
|          |   | 1                          | 10     | 100 |
| 2100208  | Terminal lug, #4 stud washer, 0.470"L (tin)               | * \$ .12                   | \$ .10 |     |
| 2099745  | Terminal lug, #4 stud washer, 0.465"L                     | * .15                      | .12    |     |
| 1581695  | Offset leg, 6-32 3/8" screw terminal; 0.55"L              | * .19                      | .15    |     |
| 2099753  | Terminal lug, #8 stud washer, 0.605"L                     | * .19                      | .15    |     |
| 1582428  | Swage threaded 4-40 standoff, 0.25"Dia. x 0.23"L          | * .19                      | .15    |     |
| 1581572  | Terminal lug, #6 stud Lockwasher, 0.865"L                 | .25                        | .22    | .15 |
| 1582410  | Single terminal turret .187"L x .109"Th (mtg hole: .078") | * .19                      | .15    |     |

★ RAF Electronic Hardware Online — Web Code RAF

### Hex Nuts

| Part No. | Screw Size | Thread | Diameter (in.) | 100 piece multiples |        |
|----------|------------|--------|----------------|---------------------|--------|
|          |            |        |                | 100                 | 1000   |
| 38165    | 2-56       | Std    | .183           | \$ .03              | \$ .02 |
| 40943    | 4-40       | Std    | .243           | .03                 | .02    |
| 42420    | 6-32       | Std    | .306           | .03                 | .02    |
| 51553    | 8-32       | Std    | .344           | .03                 | .02    |

### Flat Washers

| Part No. | Screw Size | Diameter (in.) | 100 piece multiples |        |
|----------|------------|----------------|---------------------|--------|
|          |            |                | 100                 | 1000   |
| 2094725  | 2          | .188           | \$ .03              | \$ .02 |
| 211131   | 4          | .237           | .03                 | .02    |
| 106826   | 4          | .281           | .04                 | .03    |
| 106833   | 6          | .373           | .04                 | .03    |
| 106842   | 8          | .375           | .05                 | .04    |

### Split Lock Washers

| Part No. | Screw Size | Diameter (in.) | 100 piece multiples |        |
|----------|------------|----------------|---------------------|--------|
|          |            |                | 100                 | 1000   |
| 106789   | 2          | .172           | \$ .03              | \$ .02 |
| 40977    | 4          | .242           | .03                 | .02    |
| 42463    | 6          | .240           | .03                 | .02    |
| 51609    | 8          | .279           | .03                 | .02    |

### Internal Tooth Lock Washers

| Part Number | Screw Size | Length (in.) | 100 piece multiples |        |
|-------------|------------|--------------|---------------------|--------|
|             |            |              | 100                 | 1000   |
| 2094733     | 2          | .200         | \$ .05              | \$ .04 |
| 106850      | 4          | .258         | .05                 | .04    |
| 106868      | 6          | .277         | .05                 | .04    |
| 106877      | 8          | .323         | .05                 | .04    |

### Fender Washers

| Part No. | Screw Size | Diameter (in.) | 100 piece multiples |        |
|----------|------------|----------------|---------------------|--------|
|          |            |                | 100                 | 1000   |
| 401146   | #10        | 1              | \$ .08              | \$ .07 |
| 401154   | 1/4"       | 1.25           | .08                 | .07    |
| 401162   | 5/16"      | 1.5            | .08                 | .07    |
| 401171   | 3/8"       | 1.5            | .08                 | .07    |
| 401189   | 1/2"       | 2              | .15                 | .12    |

JAMECO ValuePro

These durable, pressure sensitive, adhesive-backed urethane bumpers adhere quickly and resist marring and staining on surfaces and give excellent skid and abrasion resistance.

★ Web Code: FAV

| Part No. | Cross Ref. No. | Type  | Fig. | Pack | W" x H"   | Order in multiples of 10 |        |        |
|----------|----------------|---|------|------|-----------|--------------------------|--------|--------|
|          |                |   |      |      |           | 1                        | 10     | 50     |
| 2119718  | BS-34-100BL    | Black cylindrical                                   | 1    | 100  | .38 x .13 | \$4.95                   | \$4.75 | \$4.49 |
| 2118897  | BS-5-100BL     | Black cylindrical                                   | 2    | 100  | .50 x .06 | 5.49                     | 5.29   | 4.95   |
| 142658   | SJ5012BLKC     | Black cylindrical                                   | 1    | 100  | .50 x .14 | 6.95                     | 5.95   | 5.49   |
| 2118862  | BS-34-100CL    | Clear cylindrical                                   | 3    | 100  | .38 x .13 | 4.95                     | 4.75   | 4.49   |
| 2118900  | BS-5-100CL     | Clear cylindrical                                   | 4    | 100  | .50 x .06 | 5.49                     | 5.29   | 4.95   |
| 651911   | SJ5312CLR56    | Clear cylindrical                                   | 3    | 56   | .50 x .14 | 4.95                     | 4.49   | 3.95   |
| 651920   | SJ5412WHT56    | White cylindrical                                   | 3    | 56   | .50 x .14 | 6.95                     | 6.25   | 5.49   |
| 126981   | SJ5023BLK4     | Black square tapered                                | 5    | 4    | .81 x .30 | .95                      | .85    | .75    |
| 142666   | SJ5023BLKC     | Black square tapered                                | 5    | 100  | .81 x .30 | 14.95                    | 13.49  | 12.49  |
| 142771   | SJ5008BLKC     | Black square tapered                                | 6    | 100  | .50 x .12 | 7.95                     | 5.95   | 4.95   |
| 142682   | SJ5018BLKC     | Black square tapered                                | 7    | 100  | .50 x .23 | 10.95                    | 8.95   | 7.95   |
| 2118889  | BS-32-100CL    | Clear square tapered                                | 8    | 100  | .50 x .12 | 5.95                     | 5.75   | 5.49   |
| 2118871  | BS-7-100BL     | Black hemisphere                                    | 9    | 100  | .34 x .09 | 4.49                     | 4.25   | 3.95   |
| 651903   | SJ5302CLR96    | Clear hemisphere                                    | 10   | 96   | .31 x .09 | 7.95                     | 7.09   | 5.85   |
| 651938   | SJ6553CLR132   | Clear hexagonal cone                                | 11   | 132  | .43 x .12 | 6.95                     | 6.25   | 5.49   |
| 2081385  | GB201          | 100 assorted sizes & types of bumpers & rubber feet |      |      |           | 8.95                     | 7.95   | 6.95   |

## Instrumentation Handles

- 1954797: Round aluminum black anodized
- 6-32 thread-on 1.25" centers (2)
- Size: 1.4"L x 1.0"H x 0.187"D
- 216821/457801: Oval aluminum
- 10-32 thread-on 3.00" centers (2)
- 216821: • Size: 3.3"L x 1.3"H x 0.30"D
- 457801: • Size: 3.3"L x 1.0"H x 0.25"D

| Part No. | Mfr.     | Product No.   | 1      | 10     | 100    |
|----------|----------|---------------|--------|--------|--------|
| 1954797  | Keystone | 9116          | \$1.49 | \$1.25 | \$ .95 |
| 216821   | Various  | 8358-1032-B-5 | 3.95   | 3.75   | 3.49   |
| 457801   | Various  | 811-0632-A-24 | 1.95   | 1.49   | .95    |

## 2" General Duty Rigid Caster

- Polyolefin wheels give mobility to heavy loads on smooth surfaces
- Mounting bracket 3"L x 1-3/4"W
- Impervious to water and resists chemicals
- Long wearing, light weight and non-marking
- 125 lb. load rating per caster • Caster swivels 360°

| Part No. | Description             | 1      | 10     | 25     |
|----------|-------------------------|--------|--------|--------|
| 2082169  | 2-1/2" ground clearance | \$1.95 | \$1.75 | \$1.49 |

## 4-40 Mounting Angle Brackets

- Material: zinc plated steel
- 1581530: Both holes 4-40 threaded
- 2082581: One hole 4-40 threaded

| Part No. | Size (L" x W" x H") | 1      | 10     | 100    |
|----------|---------------------|--------|--------|--------|
| 1581530  | .375 x .25 x .353   | \$ .29 | \$ .25 | \$ .19 |
| 2082581  | .548 x .50 x .506   | .35    | .29    | .25    |

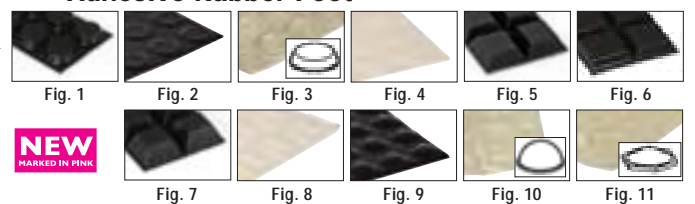
## PCB & Fan Mounting Hardware

- Snap "on"
- Nylon
- ★ Web Code: PSF



| Part No. | Product No. | Size (in.)       | Holes  | Order in multiples of 10 |        |     |
|----------|-------------|------------------|--------|--------------------------|--------|-----|
|          |             |                  |        | 1                        | 10     | 100 |
| 28337    | CS1016      | 1.2L x 0.6W      | .2"    | \$ .15                   | \$ .12 |     |
| 129252   | PCST2       | 0.9L x 0.4Dia.   | .27/3" | .19                      | .15    |     |
| 148056   | PCST3       | 0.8L x 0.5W      | .17/2" | .12                      | .10    |     |
| 156831   | CS-10       | 0.68L x 0.32Dia. | .14"   | .19                      | .15    |     |
| 2100064  | SR1036      | 1.5L x .38Lip    | .167"  | .15                      | .12    |     |

## Adhesive Rubber Feet



| Part No. | Cross Ref. No. | Type  | Fig. | Pack | W" x H"   | Order in multiples of 10 |        |        |
|----------|----------------|---|------|------|-----------|--------------------------|--------|--------|
|          |                |   |      |      |           | 1                        | 10     | 50     |
| 2119718  | BS-34-100BL    | Black cylindrical                                   | 1    | 100  | .38 x .13 | \$4.95                   | \$4.75 | \$4.49 |
| 2118897  | BS-5-100BL     | Black cylindrical                                   | 2    | 100  | .50 x .06 | 5.49                     | 5.29   | 4.95   |
| 142658   | SJ5012BLKC     | Black cylindrical                                   | 1    | 100  | .50 x .14 | 6.95                     | 5.95   | 5.49   |
| 2118862  | BS-34-100CL    | Clear cylindrical                                   | 3    | 100  | .38 x .13 | 4.95                     | 4.75   | 4.49   |
| 2118900  | BS-5-100CL     | Clear cylindrical                                   | 4    | 100  | .50 x .06 | 5.49                     | 5.29   | 4.95   |
| 651911   | SJ5312CLR56    | Clear cylindrical                                   | 3    | 56   | .50 x .14 | 4.95                     | 4.49   | 3.95   |
| 651920   | SJ5412WHT56    | White cylindrical                                   | 3    | 56   | .50 x .14 | 6.95                     | 6.25   | 5.49   |
| 126981   | SJ5023BLK4     | Black square tapered                                | 5    | 4    | .81 x .30 | .95                      | .85    | .75    |
| 142666   | SJ5023BLKC     | Black square tapered                                | 5    | 100  | .81 x .30 | 14.95                    | 13.49  | 12.49  |
| 142771   | SJ5008BLKC     | Black square tapered                                | 6    | 100  | .50 x .12 | 7.95                     | 5.95   | 4.95   |
| 142682   | SJ5018BLKC     | Black square tapered                                | 7    | 100  | .50 x .23 | 10.95                    | 8.95   | 7.95   |
| 2118889  | BS-32-100CL    | Clear square tapered                                | 8    | 100  | .50 x .12 | 5.95                     | 5.75   | 5.49   |
| 2118871  | BS-7-100BL     | Black hemisphere                                    | 9    | 100  | .34 x .09 | 4.49                     | 4.25   | 3.95   |
| 651903   | SJ5302CLR96    | Clear hemisphere                                    | 10   | 96   | .31 x .09 | 7.95                     | 7.09   | 5.85   |
| 651938   | SJ6553CLR132   | Clear hexagonal cone                                | 11   | 132  | .43 x .12 | 6.95                     | 6.25   | 5.49   |
| 2081385  | GB201          | 100 assorted sizes & types of bumpers & rubber feet |      |      |           | 8.95                     | 7.95   | 6.95   |

★ For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

JAMECO ReliaPro

## 1.5VDC – 24VDC Motors

★ Web Code: FBN



star motor



| Part No. | Manufacturer     | Product No.         | Fig. | Nominal Voltage (VDC) | Voltage Range (VDC) | @ Maximum Efficiency |             |               | Efficiency | Terminal Type     | Shaft Dia. (in.) | Shaft Length (in.) | Size Dia. x Depth (in.) | Pricing |        |        |
|----------|------------------|---------------------|------|-----------------------|---------------------|----------------------|-------------|---------------|------------|-------------------|------------------|--------------------|-------------------------|---------|--------|--------|
|          |                  |                     |      |                       |                     | Current (Amps)       | Speed (RPM) | Torque (g-cm) |            |                   |                  |                    |                         | 1       | 10     | 100    |
| 231917   | ReliaPro         | FE-260-2670         | 1    | 1.5                   | 1.5-3               | 0.66                 | 3700        | 10.5          | 42.9       | 0.12"/solder      | 0.078            | 0.314              | 0.937 x 1.063           | \$1.75  | \$1.55 | \$1.39 |
| 238465   | ReliaPro         | RF-310TA-11400 (CW) | 2    | 2.5                   | 1-6                 | 0.06                 | 2190        | 3.3           | 75.0       | 0.05"/solder      | 0.078            | 0.70               | 0.962 x 0.712           | 2.95    | 2.65   | 2.39   |
| 238458   | ReliaPro         | RF-300CA-11400 (CW) | 3    | 3                     | 1-6                 | 0.065                | 2400        | 4.3           | 56.4       | 3" wires          | 0.078            | 0.19               | 0.96 x 0.491            | 3.95    | 3.49   | 2.95   |
| 1950930  | ReliaPro         | RF-300CA-11400-22   | 3    | 3                     | 1.2-6               | 0.073                | 2970        | 3.8           | 55.0       | 3" wires          | 0.078            | 0.22               | 0.96 x 0.489            | 3.95    | 3.49   | 2.95   |
| 154915   | Star Motor       | ST130-12240-38      | 4    | 3                     | 1.5-3               | 0.17                 | 3588        | 7.4           | 55.0       | 0.09"/solder      | 0.08             | 0.37               | 0.79 x 1.13             | 1.45    | 1.29   | 1.15   |
| 1939589  | Mabuchi Motor    | FF-130RH-15210      | 5    | 3                     | 1-4                 | 0.17                 | 4280        | 5.8           | 50.0       | 0.08"/solder      | 0.08             | 0.24/0.21          | 0.79 x 0.98             | 1.95    | 1.75   | 1.59   |
| 1951449  | ReliaPro         | QJT-260-18130       | 1    | 3                     | 1.5-4.5             | 0.46                 | 4780        | 10.0          | 40.0       | 0.12"/solder      | 0.078            | 0.314              | 0.944 x 1.071           | 1.55    | 1.39   | 1.25   |
| 231925   | ReliaPro         | FE-260-2295         | 1    | 3                     | 1.5-4.5             | 0.63                 | 6850        | 14            | 53.9       | 0.12"/solder      | 0.078            | 0.314              | 0.937 x 1.063           | 1.55    | 1.39   | 1.25   |
| 154923   | Star Motor       | ST-130-22770        | 4    | 3                     | 1.5-3               | 1.150                | 12500       | 10.3          | 40.0       | 0.09"/solder      | 0.08             | 0.37               | 0.79 x 1.13             | 1.45    | 1.29   | 1.15   |
| 2078231  | Sun Motor        | 18-2760             | 6    | 3                     | 1.5-3               | 0.35                 | 13800       | 18.5          | —          | 0.11"/solder      | 0.08             | 0.25               | 0.93 x 1.07             | .99     | .79    | .59    |
| 211246   | Mabuchi Motor    | RC-260RA-2670       | 6    | 4.5                   | 3-4.5               | 1.430                | 15290       | 21.8          | 53.0       | 0.11"/solder      | 0.08             | 0.28               | 0.93 x 1.06             | 1.25    | 1.09   | .95    |
| 238511   | Mabuchi Motor    | RF-500TB-12560      | 7    | 6                     | 1.5-12              | 0.08                 | 2180        | 11.6          | 50.6       | 0.08"/solder      | 0.078            | 0.385              | 1.259 x 0.767           | 3.95    | 3.49   | 2.75   |
| 231829   | ReliaPro         | PC-280-16210        | 8    | 6                     | 3-12                | 0.28                 | 4260        | 18            | 47.6       | 0.08"/solder      | 0.078            | 0.433              | 0.944 x 1.200           | 2.49    | 2.25   | 1.95   |
| 231781   | ReliaPro         | PC-130F-12240       | 9    | 6                     | 3-9                 | 0.25                 | 6800        | 7             | 33.4       | 0.08"/solder      | 0.078            | 0.377              | 0.803 x 0.984           | 1.95    | 1.75   | 1.59   |
| 232144   | ReliaPro         | FF-050S-11170       | 10   | 7                     | 1.5-9               | 0.17                 | 8500        | 7             | 51.3       | 0.08"/solder      | 0.059            | 0.433              | 0.61 x 1.059            | 2.95    | 2.65   | 2.39   |
| 177498   | Mabuchi Motor    | RC280RA-2485        | 11   | 7.2                   | 3-14                | 1.180                | 14260       | 33.3          | 57.0       | 0.11"/solder      | 0.08             | 0.43               | 0.95 x 1.20             | 2.25    | 1.95   | 1.75   |
| 2095533  | Mabuchi Motor    | RK-270SH-16175      | 12   | 9                     | 4.5-18              | 0.370                | 6320        | 32.5          | —          | 0.08"/solder      | 0.08             | 0.344              | 0.96 x 1.21             | 2.49    | 2.25   | 1.95   |
| 231802   | ReliaPro         | PC-130F-10370       | 9    | 9                     | 6-12                | 0.15                 | 6410        | 8.5           | 43.9       | 0.08"/solder      | 0.078            | 0.377              | 0.803 x 0.984           | 1.75    | 1.59   | 1.39   |
| 1955669  | Canon            | DN26-T41NIB         | 13   | 12                    | 4-12                | 0.25                 | 2200        | 34.33         | —          | 0.11"/solder      | 0.08             | 0.30               | 1.01 x 1.00             | 1.19    | .99    | .79    |
| 174693   | Johnson Electric | 21226-384221        | 14   | 12                    | 9-14                | 0.015                | 3000        | 85.06         | —          | 0.11"/solder      | 0.08             | 0.69               | 0.97 x 1.19             | 2.95    | 2.65   | 2.39   |
| 232013   | ReliaPro         | MD5-12160           | 15   | 12                    | 12-24               | 0.30                 | 4000        | 34.3          | 39.1       | 0.12"/solder      | 0.091            | 0.622              | 1.082 x 1.279           | 2.25    | 1.95   | 1.75   |
| 231732   | ReliaPro         | PC-130SF-09480      | 9    | 12                    | 6-24                | 0.11                 | 4800        | 12.3          | 49.6       | 0.08"/solder      | 0.078            | 0.377              | 0.803 x 0.984           | 2.35    | 2.09   | 1.85   |
| 238473   | ReliaPro         | RF-370CA-15370      | 16   | 12                    | 3-12                | 0.17                 | 4840        | 187           | 75.0       | 0.08"/solder      | 0.078            | 0.346              | 0.960 x 1.213           | 5.45    | 4.95   | 4.25   |
| 206949   | Nichibo          | QJT360S14280        | 17   | 12                    | 9-30                | 0.35                 | 4930        | 44.5          | 52.0       | 0.11"/solder      | 0.09             | 0.45               | 1.09 x 1.30             | 2.95    | 2.75   | 2.25   |
| 667411   | ReliaPro         | HRF-370CA-12V       | 18   | 12                    | 6-15                | 0.13                 | 5100        | 20.0          | 64.0       | 0.08"/quick conn. | 0.08             | 0.523              | 0.960 x 1.20            | 1.55    | 1.39   | 1.25   |
| 231750   | ReliaPro         | PC-130SF-09400      | 9    | 12                    | 6-24                | 0.15                 | 5130        | 14.3          | 42.5       | 0.08"/solder      | 0.078            | 0.377              | 0.803 x 0.984           | 1.49    | 1.35   | 1.19   |
| 2081908  | Mabuchi Motor    | FK260SA-10400       | 5    | 12                    | 0-15                | 0.13                 | 5330        | 16.33         | 58.4       | 0.08"/solder      | 0.08             | 0.474              | 0.952 x 1.06            | .95     | .85    | .75    |
| 231896   | ReliaPro         | FE-260-08450        | 1    | 12                    | 6-12                | 0.11                 | 5560        | 10.3          | 46.6       | 0.12"/solder      | 0.078            | 0.314              | 0.937 x 1.063           | 1.55    | 1.39   | 1.25   |
| 232005   | ReliaPro         | UC-280S-19160       | 9    | 12                    | 6-12                | 0.57                 | 9000        | 46.6          | 63.4       | 0.08"/solder      | 0.078            | 0.433              | 0.944 x 1.200           | 2.55    | 2.29   | 1.95   |
| 1586031  | Mabuchi Motor    | FK-260SA            | 5    | 12                    | 12-24               | 0.027                | 5800        | 14.8          | 55.0       | 0.08"/solder      | 0.08             | 0.42               | 0.96 x 1.06             | 1.09    | .95    | .85    |
| 2081895  | Mabuchi Motor    | FC-280ST-18180      | 5    | 12                    | 8-15                | 0.69                 | 7880        | 54.3          | 59.08      | Wire push-in      | 0.08             | 0.45               | 0.945 x 1.32            | .95     | .85    | .75    |
| 1810099  | Mabuchi Motor    | FK-260SA (14280)    | 5    | 12                    | 12-24               | 0.063                | 8600        | 14.8          | 55.0       | 0.08"/solder      | 0.08             | 0.43               | 0.96 x 1.06             | .99     | .89    | .79    |
| 1586058  | Mabuchi Motor    | FK130RH-10450       | 13   | 12                    | 6-18                | 0.036                | 9750        | 8.9           | 45.0       | 0.08"/solder      | 0.08             | 0.31               | 0.80 x 0.99             | 1.09    | .95    | .85    |
| 232040   | ReliaPro         | MD5-2070            | 15   | 12                    | 6-12                | 1.20                 | 12150       | 62.2          | 54.1       | 0.12"/solder      | 0.091            | 0.622              | 1.082 x 1.279           | 2.55    | 2.29   | 1.95   |
| 232022   | ReliaPro         | MD5-1885            | 15   | 12                    | 6-18                | 0.74                 | 9820        | 53.5          | 60.7       | 0.11"/solder      | 0.091            | 0.622              | 1.082 x 1.279           | 2.95    | 2.65   | 2.29   |
| 1708351  | Nichibo          | KD35FN-6531FB       | 11   | 12                    | 9-15                | 1.1                  | 13500       | 2259          | 43.0       | 0.15"/quick conn. | 0.128            | 0.68               | 1.5 x 2.4               | 2.95    | 2.65   | 2.25   |
| 232047   | ReliaPro         | MD5-2445            | 15   | 12                    | 6-12                | 2.05                 | 19850       | 79.7          | 66.0       | 0.12"/solder      | 0.091            | 0.622              | 1.082 x 1.279           | 2.75    | 2.49   | 2.25   |
| 2082177  | Johnson Electric | H615-66430          | 19   | 13.5                  | 5.0-13.5            | 1.44                 | 18300       | 40.6          | 68.4       | 0.11"/solder      | 0.124            | 0.75               | 1.4 x 2.23              | 2.95    | 2.65   | 2.39   |
| 2082185  | Johnson Electric | H615-65050          | 19   | 13.6                  | 5.0-13.6            | 1.44                 | 4575        | 99.2          | —          | 0.11"/solder      | 0.124            | 0.65               | 1.4 x 1.96              | 2.49    | 2.25   | 1.95   |
| 137412   | Johnson Electric | 3E3151A3            | 11   | 14.4                  | —                   | 1.84                 | 2300        | 70.8          | 76.0       | 20" wires         | 0.125            | 0.35               | 1.40 x 1.96             | 2.25    | 1.95   | 1.75   |
| 232101   | ReliaPro         | MD5-1980AS-AA       | 20   | 24                    | 12-24               | 1.43                 | 22600       | 88.5          | 60.9       | 0.24"/solder      | 0.091            | 0.512              | 1.083 x 1.279           | 3.95    | 3.55   | 2.95   |
| 1586040  | Mabuchi Motor    | RS365PH-112240      | 19   | 24                    | 9-28                | 0.07                 | 10700       | 411           | 62.5       | 0.11"/solder      | 0.09             | 0.49               | 1.08 x 1.28             | 2.95    | 2.65   | 2.39   |
| 137614   | Johnson Electric | 684823A             | 11   | 24                    | —                   | 0.10                 | 2300        | 78            | 61.0       | 0.8"/quick conn.  | 0.125            | 0.53               | 1.40 x 1.96             | 2.25    | 1.95   | 1.75   |

### Hi-Torque

|        |          |          |    |      |      |    |       |     |   |               |       |       |               |        |        |        |
|--------|----------|----------|----|------|------|----|-------|-----|---|---------------|-------|-------|---------------|--------|--------|--------|
| 237391 | ReliaPro | 29SYT003 | 21 | 13.5 | 13.5 | 13 | 18000 | 509 | — | Quick connect | 0.125 | 1.003 | 1.141 x 2.283 | \$6.25 | \$5.59 | \$4.95 |
|--------|----------|----------|----|------|------|----|-------|-----|---|---------------|-------|-------|---------------|--------|--------|--------|

More Information  
Online



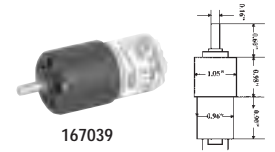
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## 6, 12 & 24VDC Reversible Gear Head Motors

- Solder-type terminal
- High torque construction
- Dielectric strength: 300VDC
- Insulation resistance: 10MΩ
- Oil bearing design for long service life

### HN27GD Series

| Part No. | Cross Ref. No. | Rated Voltage (VDC) | Operating Range (VDC) | @ Maximum Efficiency |             |               | Gear Ratio | Gear Case Size Dia. x Length (in.) | Motor Size Dia. x Depth (in.) | Shaft Size Dia. x Length (in.) | Pricing |         |         |
|----------|----------------|---------------------|-----------------------|----------------------|-------------|---------------|------------|------------------------------------|-------------------------------|--------------------------------|---------|---------|---------|
|          |                |                     |                       | Current (mA)         | Speed (RPM) | Torque (g-cm) |            |                                    |                               |                                | 1       | 5       | 25      |
| 167039   | GH12-0953Y     | 12                  | 4.5 - 24              | 90                   | 9           | 1200          | 188:1      | 1.0 x 0.9                          | 1.1 x 1.0                     | .16 x .60                      | \$18.95 | \$16.95 | \$15.25 |
| 249480   | GH12-1213Y7-0  | 12                  | 4.5 - 24              | 51                   | 90          | 460           | 70:1       | 1.1 x 0.6                          | 1.0 x 0.9                     | .16 x .60                      | 19.95   | 18.95   | 17.95   |
| 167047   | GH12-1828Y     | 12                  | 4.5 - 24              | 195                  | 31          | 1300          | 90:1       | 1.1 x 1.3                          | 1.1 x 0.8                     | .16 x .60                      | 23.95   | 21.55   | 19.45   |



HN27GD Series

### GH30GM Series

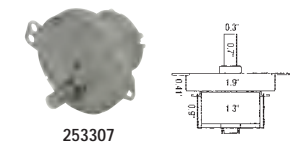
| Part No. | Cross Ref. No. | Rated Voltage (VDC) | Operating Range (VDC) | @ Maximum Efficiency |             |               | Gear Ratio | Gear Case Size Dia. x Length (in.) | Motor Size Dia. x Depth (in.) | Shaft Size Dia. x Length (in.) | Pricing |         |         |
|----------|----------------|---------------------|-----------------------|----------------------|-------------|---------------|------------|------------------------------------|-------------------------------|--------------------------------|---------|---------|---------|
|          |                |                     |                       | Current (mA)         | Speed (RPM) | Torque (g-cm) |            |                                    |                               |                                | 1       | 5       | 25      |
| 153438   | GH12-1045Y     | 12                  | 3.0 - 12              | 90                   | 13          | 800           | 200:1      | 0.9 x 1.0                          | 1.1 x 0.6                     | .16 x .70                      | \$18.95 | \$16.95 | \$15.25 |
| 170642   | GH12-1828Y-10  | 12                  | 6.0 - 24              | 105                  | 8           | 3500          | 332:1      | 1.2 x 1.2                          | 1.2 x 0.9                     | .16 x .70                      | 26.95   | 24.25   | 21.95   |
| 159418   | GH12-1921Y     | 12                  | 4.5 - 12              | 200                  | 25          | 2000          | 132:1      | 1.2 x 1.2                          | 1.2 x 0.9                     | .16 x .70                      | 25.95   | 23.25   | 20.95   |
| 162191   | GH12-1324Y225  | 12                  | 4.5 - 12              | 145                  | 190         | 300           | 30:1       | 1.0 x 0.9                          | 1.1 x 0.6                     | .16 x .70                      | 17.95   | 15.95   | 14.35   |



GH30GM Series

### 32GM Series

| Part No. | Cross Ref. No. | Rated Voltage (VDC) | Current (mA) | Speed (RPM) | Torque (g-cm) | Gear Ratio | Gear Case Size Dia. x Height (in.) | Motor Size Dia. x Depth (in.) | Shaft Size Dia. x Length (in.) | Pricing |         |         |
|----------|----------------|---------------------|--------------|-------------|---------------|------------|------------------------------------|-------------------------------|--------------------------------|---------|---------|---------|
|          |                |                     |              |             |               |            |                                    |                               |                                | 1       | 5       | 25      |
| 253403   | 32-009         | 6                   | 64           | 2.7         | 2500          | 450:1      | 1.9 x 0.41                         | 1.3 x 0.9                     | .30 x .70                      | \$19.95 | \$17.95 | \$15.95 |
| 253323   | 32-004         | 6                   | 44           | 6           | 1500          | 200:1      | 1.9 x 0.41                         | 1.3 x 0.9                     | .30 x .70                      | 14.95   | 13.49   | 11.95   |
| 253307   | 32-002         | 6                   | 38           | 8           | 1200          | 150:1      | 1.9 x 0.41                         | 1.3 x 0.9                     | .30 x .70                      | 19.95   | 17.95   | 15.95   |



32GM Series

### 38GM Series

|        |        |    |      |     |      |       |           |           |           |         |         |         |
|--------|--------|----|------|-----|------|-------|-----------|-----------|-----------|---------|---------|---------|
| 253534 | 38-010 | 12 | 97   | 24  | 7500 | 250:1 | 1.5 x 0.7 | 1.3 x 1.0 | .20 x .50 | \$21.95 | \$19.75 | \$17.75 |
| 253526 | 38-009 | 12 | 93.5 | 36  | 5400 | 167:1 | 1.5 x 0.7 | 1.3 x 1.0 | .20 x .50 | 18.95   | 16.95   | 15.35   |
| 253518 | 38-008 | 12 | 87.5 | 40  | 4800 | 150:1 | 1.5 x 0.7 | 1.3 x 1.0 | .20 x .50 | 18.95   | 16.95   | 15.35   |
| 253500 | 38-007 | 12 | 82   | 60  | 3200 | 100:1 | 1.5 x 0.7 | 1.3 x 1.0 | .20 x .50 | 19.95   | 17.95   | 15.95   |
| 253497 | 38-006 | 12 | 80   | 66  | 2100 | 90:1  | 1.5 x 0.7 | 1.3 x 1.0 | .20 x .50 | 19.95   | 17.95   | 15.95   |
| 253489 | 38-005 | 12 | 76   | 110 | 1300 | 56:1  | 1.5 x 0.7 | 1.3 x 1.0 | .20 x .50 | 18.95   | 16.95   | 15.35   |
| 253471 | 38-004 | 12 | 74   | 120 | 1100 | 50:1  | 1.5 x 0.7 | 1.3 x 1.0 | .20 x .50 | 14.95   | 13.45   | 11.95   |
| 253446 | 38-001 | 12 | 61.8 | 600 | 350  | 10:1  | 1.5 x 0.7 | 1.3 x 1.0 | .20 x .50 | 21.95   | 19.75   | 17.75   |



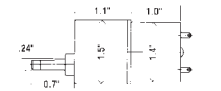
38GM Series

### GH35GM Series Plastic Gears

| Part No. | Cross Ref. No. | Rated Voltage (VDC) | Operating Range (VDC) | @ Maximum Efficiency |             |               | Gear Ratio | Gear Case Size Dia. x Length (in.) | Motor Size Dia. x Depth (in.) | Shaft Size Dia. x Length (in.) | Pricing |         |         |
|----------|----------------|---------------------|-----------------------|----------------------|-------------|---------------|------------|------------------------------------|-------------------------------|--------------------------------|---------|---------|---------|
|          |                |                     |                       | Current (mA)         | Speed (RPM) | Torque (g-cm) |            |                                    |                               |                                | 1       | 5       | 25      |
| 155012   | GH12-1926      | 12                  | 4.5 - 12              | 250                  | 2           | 6000          | 3000:1     | 1.3 x 0.9                          | 1.5 x 1.1                     | .23 x .90                      | \$21.95 | \$19.95 | \$17.95 |
| 155821   | GH12-1830Y-P   | 12                  | 4.5 - 12              | 220                  | 4.5         | 4500          | 1000:1     | 1.3 x 0.9                          | 1.5 x 1.0                     | .23 x .90                      | 22.95   | 20.49   | 18.49   |
| 155839   | GH12-1641T-L   | 12                  | 3.0 - 12              | 250                  | 20          | 3000          | 270:1      | 1.3 x 0.9                          | 1.5 x 0.8                     | .23 x .90                      | 25.95   | 23.35   | 20.95   |
| 152911   | GH12-1926Y     | 12                  | 4.5 - 12              | 172                  | 40          | 2370          | 100:1      | 1.3 x 1.0                          | 1.5 x 0.7                     | .24 x .90                      | 24.95   | 22.45   | 19.95   |
| 155855   | GH12-1641T-F   | 12                  | 3.0 - 12              | 250                  | 71          | 1000          | 60:1       | 1.3 x 0.9                          | 1.4 x 0.9                     | .23 x .90                      | 24.95   | 22.45   | 19.95   |
| 151441   | GH12-1632TI    | 12                  | 4.5 - 12              | 275                  | 57          | 2200          | 100:1      | 1.3 x 0.9                          | 1.5 x 0.7                     | .23 x .90                      | 21.95   | 19.95   | 17.95   |
| 155863   | GH12-1926Y-F   | 12                  | 4.5 - 12              | 300                  | 70          | 1000          | 60:1       | 1.4 x 0.7                          | 1.3 x 1.0                     | .24 x .70                      | 24.95   | 22.45   | 19.95   |
| 161374   | GH12-1345T     | 12                  | 4.5 - 12              | 185                  | 116         | 650           | 30:1       | 1.3 x 0.9                          | 1.5 x 0.7                     | .23 x .90                      | 23.95   | 21.49   | 19.49   |
| 161382   | GH12-1634T     | 12                  | 4.5 - 12              | 293                  | 145         | 850           | 30:1       | 1.3 x 0.9                          | 1.4 x 0.7                     | .23 x .90                      | 21.95   | 19.95   | 17.95   |
| 164786   | GH12-1640Y     | 12                  | 4.5 - 24              | 120                  | 220         | 180           | 10:1       | 1.3 x 0.9                          | 1.4 x 0.7                     | .23 x .90                      | 28.95   | 25.95   | 22.95   |
| 176050   | GH12-1640Y00   | 24                  | 12 - 24               | 340                  | 1.8         | 6000          | 3000:1     | 1.3 x 0.9                          | 1.5 x 1.1                     | .23 x .90                      | 22.95   | 20.49   | 18.49   |
| 11799    | CB5M-24        | 24                  | 6 - 24                | 110                  | 14.6        | 1800          | —          | 1.3 x 1.0                          | 1.4 x 1.1                     | .196 x .375                    | 11.95   | 10.75   | 9.49    |
| 176032   | GH24-1640Y06   | 24                  | 12 - 24               | 340                  | 50          | 2000          | 90:1       | 1.3 x 0.9                          | 1.4 x 0.7                     | .23 x .90                      | 24.95   | 22.45   | 19.95   |
| 176023   | GH24-1640Y19   | 24                  | 12 - 24               | 340                  | 148         | 1000          | 30:1       | 1.3 x 0.9                          | 1.4 x 0.7                     | .23 x .90                      | 24.95   | 22.45   | 19.95   |



155012



155013  
GH35GM Series

### GH35GM Series Metal Gears

| Part No. | Cross Ref. No.    | Rated Voltage (VDC) | Operating Range (VDC) | Current (mA) | Speed (RPM) | Torque (g-cm) | Gear Ratio | Gear Case Size Dia. x Length (in.) | Motor Size Dia. x Depth (in.) | Shaft Size Dia. x Length (in.) | Pricing |         |         |
|----------|-------------------|---------------------|-----------------------|--------------|-------------|---------------|------------|------------------------------------|-------------------------------|--------------------------------|---------|---------|---------|
|          |                   |                     |                       |              |             |               |            |                                    |                               |                                | 1       | 5       | 25      |
| 155013   | HN-GH12-1632T-R-M | 12                  | 4.5 - 12              | 250          | 2           | 6000          | 3000:1     | 1.3 x 0.9                          | 1.5 x 1.1                     | .23 x .90                      | \$21.95 | \$19.95 | \$17.95 |
| 155822   | GH12-1830Y-P-R-M  | 12                  | 4.5 - 12              | 250          | 4.5         | 4500          | 1000:1     | 1.3 x 0.9                          | 1.5 x 1.0                     | .23 x .90                      | 22.95   | 20.65   | 18.55   |
| 151442   | HN-GH12-1632T-R-M | 12                  | 4.5 - 12              | 275          | 57          | 2200          | 100:1      | 1.3 x 0.9                          | 1.5 x 0.7                     | .23 x .90                      | 21.95   | 19.95   | 17.95   |
| 155864   | GH12-1926Y-F-R-M  | 12                  | 4.5 - 12              | 300          | 70          | 1000          | 60:1       | 1.3 x 0.9                          | 1.4 x 0.9                     | .24 x .70                      | 21.95   | 19.95   | 17.95   |

## 120VAC Gear Motor

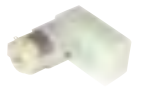
### 6.0 RPM - 2.9 Watt

- Operating voltage: 120VAC @ 60Hz
- Torque: >3.6 kg-cm
- Screw down tabs for mounting (2.3" diagonal mounting hole space)
- Typical applications: air conditioner turnleaf motor, microwave turnplate motor



## Gear Head Motor

- Current @ 6V: 57mA
- Stall current @ 6V: 633mA
- Stall torque @ 6V: 59.26 in. oz.
- Gear ratio: 143:1
- RPM @ 6V: 80



| Part No. | Product No. | Shaft Dia./Length | Connector | Size          | 1       | 5       | 25      | Part No. | Mfr. P/N | Size (L"xW"xH") | 1      | 5      | 25     |
|----------|-------------|-------------------|-----------|---------------|---------|---------|---------|----------|----------|-----------------|--------|--------|--------|
| 213488   | SOTY2-R     | 0.27" x 0.65"     | 12" wires | 2.0"D x 1.0"T | \$14.95 | \$13.45 | \$11.95 | 400995   | GM8      | 2.2 x 1.9 x 0.9 | \$8.75 | \$7.75 | \$6.95 |

\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above



**JAMECO ReliaPro**

## 1.3VDC & 3VDC Vibrating Motors

**JAMECO EXCLUSIVE**

★ Web Code: NBC

• Typical applications: cellular phones, pagers and toys



Fig. 1

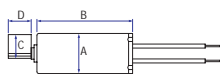


Fig. 1



Fig. 2



Fig. 3



Fig. 4

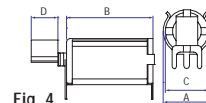


Fig. 4

| Part No. | Cross Ref. No. | Fig. | Operating Voltage (VDC @ mA) | Operating Range (VDC) | Rated RPM @ VDC | Lead Length (in.) | Motor Size (A x B) (Dia. x Depth) | Shaft Size (C x D) (Dia. x Length) | Pricing |        |        |
|----------|----------------|------|------------------------------|-----------------------|-----------------|-------------------|-----------------------------------|------------------------------------|---------|--------|--------|
|          |                |      |                              |                       |                 |                   |                                   |                                    | 1       | 10     | 100    |
| 175062   | OTL-7AL        | 1    | 1.3 @ 62                     | 0.70 - 1.60           | 7000 @ 1.3      | 0.7               | 0.28 x 0.67                       | 0.10 x 0.18                        | \$4.55  | \$3.95 | \$3.69 |
| 256357   | 7ZK642         | 2    | 1.3 @ 70                     | 1.00 - 1.60           | 7500 @ 1.3      | 4.7               | 0.28 x 0.66                       | 0.18 x 0.22                        | 3.49    | 2.95   | 2.65   |
| 175396   | OTL-4AL        | 3    | 1.3 @ 65                     | 0.70 - 1.60           | 8500 @ 1.3      | 0.75              | 0.16 x 0.55                       | 0.15 x 0.23                        | 4.75    | 4.25   | 3.85   |
| 256306   | 6ZK003         | 2    | 1.3 @ 80                     | 0.85 - 1.60           | 8500 @ 1.3      | 1.0               | 0.23 x 0.39                       | 0.10 x 0.10                        | 3.35    | 2.95   | 2.65   |
| 256322   | 6ZK211         | 4    | 1.3 @ 80                     | 0.80 - 1.60           | 8500 @ 1.3      | PC terminal       | 0.27 x 0.48                       | 0.11 x 0.11                        | 2.75    | 2.49   | 2.25   |
| 256365   | 7ZK692         | 2    | 3.0 @ 60                     | 2.40 - 3.00           | 6500 @ 3.0      | 4.7               | 0.28 x 0.66                       | 0.18 x 0.22                        | 4.65    | 4.19   | 3.75   |
| 256382   | 7ZK681         | 2    | 3.0 @ 60                     | 2.40 - 3.60           | 7500 @ 3.0      | 1.1               | 0.28 x 0.66                       | 0.12 x 0.16                        | 4.65    | 4.19   | 3.75   |
| 256314   | 6ZK053         | 2    | 3.0 @ 75                     | 1.60 - 3.60           | 8500 @ 3.0      | 1.0               | 0.23 x 0.39                       | 0.10 x 0.10                        | 3.25    | 2.95   | 2.65   |
| 256331   | 6ZK261         | 4    | 3.0 @ 75                     | 2.40 - 3.00           | 8500 @ 3.0      | PC terminal       | 0.27 x 0.48                       | 0.11 x 0.11                        | 3.25    | 2.95   | 2.65   |

## Stepper Motor Controllers

### Multi-Stepper Motor Control Board

- Current-mode coil driver up to 2A/45V
- 11 analog channels, A/D converter, 12-bit resolution
- 24-bit position register; can be read while motor is moving
- High-speed serial communication interface 9.6kbps-230.4kbps
- Linear acceleration/deceleration capability up to 8500 step/sec.
- Full step (monophasic and biphasic), half step and external driver modes
- Simultaneous/independent control of up to 16 stepper motors through a single serial port
- 26 digital I/O and two SPI interfaces for control of external devices

★ Web Code: VBA



Shown w/ motors - not included



### Sport232-ST One Axis Stepper Motor Controller & DAC Board

- Shaft encoder capabilities for close loop applications
- Home, limit CW/CCW, abort, pulse and direction output signals
- 4-channels with signal conditioning 0 to 2.5V, 0 to 10V
- Linear acceleration/deceleration, profile movements through 128 bytes internal FIFO
- Full, half steps (monophasic, bi-phasic)
- 8 digital I/O and 8 analog inputs w/ 12-bit resolution
- Free 32-bit DLL for Windows 9x/NT/2000/XP, Linux and Labview



### 32-Bit Stepper Motor Controller One Axis

- Controls one bipolar stepper motor with 32-bit absolute position
- Multiple boards may share same serial line (RS485 only)
- Full, half or wave step modes
- 2 channel general purpose 8-bit A/D input port for reading 0 to 5V
- Interface to PC through RS232 or RS485 @ 2400-19,200bps
- 4-bit digital input for home limits
- Addressable up to 255 boards



| Part No. | Mfr. Part No. | 1        | 5        |
|----------|---------------|----------|----------|
| 168729   | ST400NT-R10   | \$399.95 | \$379.95 |

| Part No. | Mfr. Part No. | 1        | 5        |
|----------|---------------|----------|----------|
| 355047   | Sport232-ST   | \$164.95 | \$156.75 |

| Part No. | Mfr. Part No. | 1        | 5        |
|----------|---------------|----------|----------|
| 153621   | STP-100       | \$149.95 | \$134.95 |

## KAE

### Industrial Motion Controllers for Brush, Brushless & Stepper Motors

★ Web Code: QBV

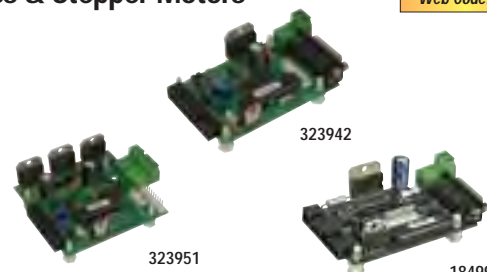
- 323942:** • For brush-type DC motors with 2 or 3 channel incremental encoders
- P.I.D. Servo control, trapezoidal position profiling, velocity mode, 32-bit resolution
  - Integrated 12 to 48VDC supply power amplifier @ 3A continuous, 6A peak
  - Limit switch inputs, general purpose analog input, PWM, DIR output for use with external amps

- 323951:** • For 3-phase brushless motors with hall effect sensors or conventional DC brush-type motors
- Amplifier capable of driving 6A continuously @ up to 48VDC
  - High current amplifier: 7A continuous, 10A peak, 12 to 48VDC supply
  - Support for linear & circular interpolation using the PIC-SERVO CMC chipset

- 184997:** • Trapezoidal position profiling, velocity mode, up to 50,000 steps per second
- Full/half step bipolar chopper drive, 2A per phase, 7.5 to 46VDC supply
  - Integrated indexer and driver for 2 or 4 phase stepper motors

| Part No. | Mfr. Part No.     | Description   |
|----------|-------------------|---|
| 323942   | KAE-TOV10-BDV1    | PIC-SERVO motor control board                                       |
| 323951   | KAE-TOV10-BD3PHV1 | PIC-SERVO 3-phase motor control board for brush or brushless motors |
| 184997   | PIC-STEP          | PIC-STEP motor control board  |

| Size (L x W x H)   | 1        | 5        |
|--------------------|----------|----------|
| 3.1" x 2.1" x 0.9" | \$159.95 | \$151.95 |
| 3.1" x 3.1" x 0.9" | 239.95   | 227.95   |
| 3.1" x 2.1" x 0.9" | 159.95   | 151.95   |



323951

323942

184997

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See page 191 for  
Motor Speed  
Control Kit &  
Motor Driver Kits



JAMECO ReliaPro

## Bipolar & Unipolar Stepper Motors

\*Web Code: UBN

Jameco offers the industry's widest variety of off-the-shelf two-phase bipolar and four-phase unipolar stepper motors for your precision applications. Be sure to check out the wide selection of 2 to 24VDC models below.

- Ball bearings
- Dielectric strength: 500V, 50Hz/minute
- Insulation resistance: 100MΩ @ 500VDC
- 18" lead wires
- Ambient temp.: -10°C to +55°C
- Use P/N 161998, pg 193, for shaft coupler

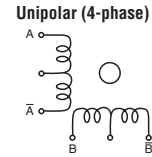
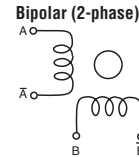


Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6



Fig. 7



Fig. 8



Fig. 9



Fig. 10

| Part No. | *Mfr. | Product No. | Fig. | Drive System | Voltage (VDC) | Step Angle | Phase Res. (Ω) | Curr. (mA) | Phase Inductance (mH) | Detent Torque (g-cm) | Holding Torque (g-cm) | Mounting Hole Space Diagonal (in.) | Mounting Holes (in.) | Shaft Dia. (in.) | Shaft Length (in.) | Motor Dia. (in.) | Motor Depth (in.) | Wt. (lbs.) | Pricing |         |         |
|----------|-------|-------------|------|--------------|---------------|------------|----------------|------------|-----------------------|----------------------|-----------------------|------------------------------------|----------------------|------------------|--------------------|------------------|-------------------|------------|---------|---------|---------|
|          |       |             |      |              |               |            |                |            |                       |                      |                       |                                    |                      |                  |                    |                  |                   |            | 1       | 5       | 25      |
| 237569   | JRP   | 57BYG009    | 1    | Unipolar     | 2.4           | 1.8        | 1              | 2400       | 1.5                   | —                    | 5914                  | 1.86                               | 0.20                 | 0.25             | 0.83               | 2.29             | 2.20              | 1.40       | \$24.95 | \$22.49 | \$19.95 |
| 237614   | JRP   | 57BYGH801   | 2    | Unipolar     | 3.3           | 1.8        | 2.2            | 1500       | 22                    | —                    | 5608                  | 1.86                               | 0.20                 | 0.25             | 0.83               | 2.24             | 2.01              | 1.32       | 31.95   | 28.95   | 25.95   |
| 1581231  | ORM   | PX243M-01AA | 3    | Unipolar     | 4             | 0.9        | 8.4            | 670        | 10                    | —                    | 793                   | 1.79                               | 0.08                 | 0.195            | 0.88               | 1.67             | 1.27              | 0.46       | 19.95   | 17.95   | 15.95   |
| 237552   | JRP   | 57BYG008    | 1    | Unipolar     | 4             | 1.8        | 3.1            | 1300       | 4.4                   | —                    | 4996                  | 1.86                               | 0.20                 | 0.25             | 0.83               | 2.29             | 2.01              | 1.30       | 31.95   | 28.95   | 25.95   |
| 237607   | JRP   | 57BYGH001   | 2    | Unipolar     | 5             | 1.8        | 5              | 1000       | —                     | —                    | 3976                  | 1.86                               | 0.20                 | 0.25             | 0.83               | 2.24             | 1.61              | 1.10       | 36.95   | 33.25   | 29.95   |
| 237825   | JRP   | 25BY4801    | 4    | Unipolar     | 5             | 7.5        | 10             | 500        | —                     | 45                   | 110                   | 1.38                               | 0.14                 | 0.08             | 0.35               | 0.98             | 0.56              | 0.07       | 9.95    | 8.95    | 7.95    |
| 223870   | JRP   | 57BYG070    | 1    | Unipolar     | 5.4           | 1.8        | 3.6            | 1500       | 6                     | 977                  | 8974                  | 2.65                               | 0.20                 | 0.25             | 0.80               | 2.20             | 2.20              | 2.00       | 29.95   | 26.95   | 24.25   |
| 237631   | JRP   | 57BYGH803   | 2    | Unipolar     | 6.3           | 1.8        | 4.2            | 1500       | —                     | —                    | 14276                 | 1.86                               | 0.20                 | 0.25             | 0.83               | 2.24             | 2.99              | 2.43       | 59.95   | 53.95   | 48.95   |
| 171601   | ♦     | PF35T48L4*  | 5    | Unipolar     | 7             | 7.5        | 20             | 350        | 9                     | 40                   | 680                   | 1.68                               | 0.14                 | 0.078            | 0.47               | 1.38             | 0.58              | 0.15       | 2.95    | 1.95    | 1.75    |
| 172646   | JRP   | 42BYG205    | 1    | Unipolar     | 9.6           | 1.8        | 75             | 480        | 15                    | 220                  | 2300                  | 1.73                               | 0.10                 | 0.20             | 0.90               | 1.70             | 1.40              | 0.50       | 19.95   | 17.95   | 15.95   |
| 224022   | JRP   | 42BYG016    | 6    | Unipolar     | 12            | 1.8        | 75             | 160        | 40                    | 150                  | 900                   | 1.73                               | 0.10                 | 0.20             | 0.70               | 1.70             | 1.30              | 0.50       | 21.95   | 19.75   | 17.75   |
| 155433   | JRP   | 42BYG228    | 6    | Unipolar     | 12            | 1.8        | 30             | 400        | 23                    | 220                  | 2000                  | 1.73                               | 0.10                 | 0.20             | 0.90               | 1.70             | 1.50              | 0.50       | 20.95   | 18.95   | 16.95   |
| 237543   | JRP   | 57BYG007    | 1    | Unipolar     | 12            | 1.8        | 32             | 380        | 30                    | —                    | 2957                  | 1.86                               | 0.20                 | 0.25             | 0.83               | 2.29             | 1.61              | 1.00       | 24.95   | 22.49   | 19.95   |
| 238538   | JRP   | 42BYGH404   | 7    | Unipolar     | 12            | 1.8        | 30             | 400        | 25                    | 250                  | 3200                  | 1.22                               | 0.10                 | 0.20             | 0.95               | 1.67             | 1.89              | 0.60       | 21.95   | 19.75   | 17.75   |
| 162027   | JRP   | 57BYG084    | 1    | Unipolar     | 12            | 1.8        | 20             | 600        | 22                    | 725                  | 6000                  | 2.65                               | 0.20                 | 0.25             | 1.00               | 2.20             | 2.00              | 1.30       | 35.95   | 32.25   | 28.95   |
| 237876   | JRP   | 25BY4809    | 4    | Unipolar     | 20            | 7.5        | 50             | 400        | 16                    | 45                   | 155                   | 1.42                               | 0.35                 | 0.08             | 0.22               | 0.98             | 0.87              | 0.10       | 4.95    | 4.49    | 3.95    |
| 238115   | JRP   | 35BY48B08   | 8    | Unipolar     | 24            | 7.5        | 75             | 320        | 38                    | 65                   | 270                   | 1.65                               | 0.13                 | 0.08             | 0.35               | 1.38             | 0.59              | 0.15       | 8.49    | 7.49    | 6.75    |
| 237729   | JRP   | 42BY48H07   | 9    | Unipolar     | 24            | 7.5        | 85             | 280        | 78                    | 130                  | 780                   | 1.95                               | 0.14                 | 0.12             | 0.39               | 1.65             | 0.87              | 0.27       | 6.95    | 6.25    | 5.49    |
| 237497   | JRP   | 39BYG101-01 | 6    | Bipolar      | 2.7           | 1.8        | 6.8            | 400        | 6.5                   | 150                  | 650                   | 1.22                               | 0.10                 | 0.20             | 0.75               | 1.54             | 0.79              | 0.26       | 16.95   | 15.25   | 13.75   |
| 237490   | JRP   | 39BYG001    | 6    | Bipolar      | 5             | 1.8        | 5              | 1000       | —                     | 150                  | 1800                  | 1.22                               | 0.10                 | 0.20             | 0.91               | 1.54             | 1.34              | 0.44       | 19.95   | 17.95   | 15.95   |
| 237578   | JRP   | 57BYG061    | 1    | Bipolar      | 6             | 1.8        | 12             | 500        | 24                    | —                    | 3569                  | 1.86                               | 0.20                 | 0.25             | 0.83               | 2.29             | 1.61              | 1.00       | 37.95   | 33.95   | 30.75   |
| 237519   | JRP   | 42BYG017    | 6    | Bipolar      | 6.3           | 1.8        | 15             | 420        | 16                    | 150                  | 1400                  | 1.22                               | 0.10                 | 0.20             | 0.51               | 1.67             | 1.34              | 0.50       | 19.95   | 17.95   | 15.95   |
| 237454   | JRP   | 39BYG201    | 6    | Bipolar      | 9.6           | 1.8        | 20             | 480        | —                     | 200                  | 1000                  | 1.22                               | 0.10                 | 0.20             | 0.20               | 1.54             | 0.98              | 0.44       | 18.95   | 17.95   | 16.95   |
| 155460   | JRP   | 42BYG023    | 6    | Bipolar      | 12            | 1.8        | 30             | 400        | 36                    | 220                  | 2100                  | 1.73                               | 0.10                 | 0.20             | 0.60               | 1.70             | 1.30              | 0.50       | 20.95   | 18.95   | 17.45   |
| 237472   | JRP   | 39BYG401A   | 6    | Bipolar      | 12            | 1.8        | 30             | 400        | 32                    | 200                  | 2100                  | 1.22                               | 0.10                 | 0.20             | 0.95               | 1.54             | 1.34              | 0.44       | 21.95   | 19.75   | 17.75   |
| 1585653  | JPN   | KP35FM2-044 | 10   | Bipolar      | 24            | 1.8        | 8              | 500        | 7.8                   | 90                   | 700                   | 1.45                               | 0.09                 | 0.197            | 0.90               | 1.62             | 1.05              | 0.32       | 5.95    | 5.35    | 4.85    |

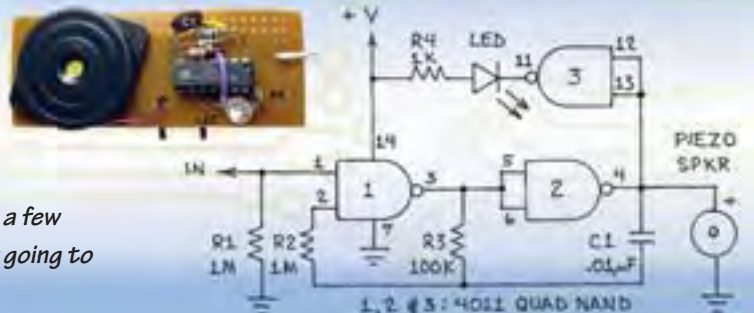
\* 171601: Dual shaft with 10 tooth gear \*\* 155460: Dual shaft

## VOLTAGE PROBE WITH TONE AND LED OUTPUTS

by Forrest M. Mims III

A voltage probe can be very handy when troubleshooting circuits. This one described here indicates a positive voltage with both a tone and a glowing LED. It is powered by the circuit being tested, so it needs no onboard power supply. It can be built for a few dollars and can be easily modified. See how it works by going to

[www.jameco.com/FMR7](http://www.jameco.com/FMR7)



\* JRP = Jameco ReliaPro | JPN = Japan Servo | ORM = Orient Motor | ♦ Manufacturer Varies

\* For Complete Specs & Additional Product Listings Search [www.jameco.com/More](http://www.jameco.com/More) and Enter Web Code Listed Above

## Scott Edwards Electronics, Inc.

### Serial Servo Controller Module

- Controls 8 pulse-proportional servos
- Receives serially at 2400 or 9600 baud
- Module is addressable, allowing two units to share the same line to control a total of 16 servos
- Connections to serial input can be established using a modular jack (P/N 115554, pg 62) or modular adapter from DB9 to RJ11 (P/N 114738, pg 62)
- Size (PCB): 1.9"L x 1.4"W • One-year warranty



| Part No. | Description | 1       | 5       |
|----------|-------------|---------|---------|
| 151001   | Mini SSC II | \$43.95 | \$41.75 |

### Continuous Rotation Servos

Controlled easily from a BASIC Stamp or SX chip I/O pin using PBASICs or SX/B's PULSOUT commands

- 4-6VDC @ ~190mA
- 2110692/283021: PARALLAX 283039  
Holds position over 180° range; standard servo
- 283039: Bi-directional continuous rotation and includes an adjustable potentiometer port to center the servo



| Part No. | Mfr. Part No. | Size (L" x W" x H")   | 1       | 5       |
|----------|---------------|-----------------------|---------|---------|
| 283021   | 900-00005     | 2.2 x 0.8 x 1.6 ....  | \$14.95 | \$13.95 |
| 283039   | 900-00008     | 2.2 x 0.8 x 1.6 ..... | 14.95   | 13.49   |
| 2110692  | 900-00014     | 0.9 x 0.37 x 0.61 ..  | 19.95   | 17.95   |

## Servo Motors and Accessories

- + pulse width 1500usec neutral control system
- Operating voltage range: 4.8V to 6V

### Motors



| Part No. | Mfr. Part No. | Oper. Speed (4.8V @ no load) | Stall Torque @ 4.8V (kg.cm) | Direction | Operating Angle    | Current Drain (mA, idle/ no load) | Dimensions (L" x W" x H") | Pricing |         |
|----------|---------------|------------------------------|-----------------------------|-----------|--------------------|-----------------------------------|---------------------------|---------|---------|
| 358619   | HS-805BB      | .19sec/600                   | 19.9                        | Clockwise | 45°/one side pulse | 8/700                             | 2.6 x 1.2 x 1.3           | \$59.95 | \$56.95 |
| 395786   | HS-422        | .21sec/600                   | 3.3                         | Clockwise | 45°/one side pulse | 8/150                             | 1.6 x 0.8 x 1.4           | 19.95   | 18.95   |
| 395760   | HS-322HD      | .19sec/600                   | 3.0                         | Clockwise | 40°/one side pulse | 7.4/160                           | 2.1 x 0.8 x 1.4           | 12.95   | 11.49   |
| 358635   | HS-311        | .19sec/600                   | 3.0                         | Clockwise | 40°/one side pulse | 7.4/160                           | 1.5 x 0.8 x 1.1           | 16.95   | 15.95   |
| 166351   | HS-755HB      | .28sec/600                   | 11.0                        | Clockwise | 40°/one side pulse | 8/230                             | 2.3 x 1.1 x 2.0           | 44.95   | 42.95   |

### Accessories

| Part No. | Description  | 1       | 5       |
|----------|--|---------|---------|
| 358811   | Servo gripper, 1.3" opening (compatible with all servos above) | \$19.95 | \$18.95 |
| 400400   | Servo gearbox, 2:1 ratio, for use with P/N 358619              | 34.95   | 29.95   |
| 400418   | Servo gearbox, 4:1 ratio, for use with P/N 358619              | 34.95   | 29.95   |
| 396279   | 3 color servo wire (red, black, yellow), 22-20, 50'            | 15.95   | 14.49   |

## 12VDC Solenoid Valve

- Current: 350mA
- Operating voltage: 12VDC
- Dimensions: 1.2"L x 0.92" Dia.
- Air leakage: 4psi, 1c.c./min. max.
- 0.250" quick disconnect terminals
- Operational temp.: -29°C to 85°C



| Part No. | Product No. | 1      | 5      | 25     |
|----------|-------------|--------|--------|--------|
| 169835   | TAV-0829-R  | \$9.95 | \$8.95 | \$7.95 |

## 12VDC Power Solenoid

- 12VDC • 4Ω coil
- Handles a 225A load
- Intermittent 50% duty cycle
- 1/4-20 copper studs
- Contractors power solenoid
- 2.25" mounting centers
- Size: 1.86" x 3" base



| Part No. | Product No. | 1      | 5      | 25     |
|----------|-------------|--------|--------|--------|
| 1585645  | 93285       | \$3.95 | \$3.49 | \$2.95 |

## JAMECO ReliaPro

## 12VDC & 24VDC Continuous Push/Pull Solenoids

★ Web Code: MEJ



| Part No. | *Mfr. | Product No.    | Type            | Volt. (VDC) | Coil Res. (±10%) (Ω) | Power Consump. (W) | Holding Force (lbs. @20°C) | Stroke (in.) | Dimensions Length x Dia. (in.)† | Shaft Dia. (in.) | Wt. (lbs.) | Pricing |         |         |
|----------|-------|----------------|-----------------|-------------|----------------------|--------------------|----------------------------|--------------|---------------------------------|------------------|------------|---------|---------|---------|
| 1919351  | JRP   | SMO-0415S12STD | Open frame-push | 12          | 180                  | 0.8                | 0.026                      | 0.20         | 0.6 x 0.4 x 0.3                 | 0.157            | 0.02       | \$16.95 | \$15.25 | \$13.75 |
| 1919385  | JRP   | SMO-0420S12STD | Open frame-push | 12          | 120                  | 1.2                | 0.04                       | 0.10         | 0.8 x 0.5 x 0.4                 | 0.060            | 0.02       | 14.95   | 13.49   | 11.95   |
| 1919377  | JRP   | SMO-0415L12STD | Open frame-pull | 12          | 120                  | 1.2                | 0.04                       | 0.10         | 0.8 x 0.5 x 0.4                 | 0.157            | 0.02       | 9.95    | 8.95    | 7.95    |
| 1919393  | JRP   | SMO-0420L12STD | Open frame-pull | 12          | 120                  | 1.2                | 0.04                       | 0.10         | 0.8 x 0.5 x 0.4                 | 0.070            | 0.02       | 8.95    | 7.95    | 6.95    |
| 262247   | JRP   | SMO-0520L12STD | Open frame-pull | 12          | 90                   | 1.6                | 0.16                       | 0.24         | 0.8 x 0.6 x 0.5                 | 0.200            | 0.04       | 9.95    | 8.95    | 7.95    |
| 1919414  | JRP   | SMO-0630L12STD | Open frame-pull | 12          | 60                   | 2.4                | 0.187                      | 0.10         | 1.2 x 0.8 x 0.6                 | 0.060            | 0.10       | 14.95   | 13.49   | 11.95   |
| 262263   | JRP   | SMO-0837L12STD | Open frame-pull | 12          | 36                   | 4.0                | 1.10                       | 0.24         | 1.5 x 1.0 x 0.8                 | 0.310            | 0.21       | 10.95   | 9.95    | 8.75    |
| 262272   | JRP   | SMO-0837S12STD | Open frame-pull | 12          | 36                   | 4.0                | 1.10                       | 0.24         | 1.5 x 1.0 x 0.8                 | 0.08/0.31*       | 0.21       | 10.95   | 9.95    | 8.75    |
| 262290   | JRP   | SMO-1253L12AA  | Open frame-pull | 12          | 24                   | 6.0                | 3.31                       | 0.24         | 2.1 x 1.8 x 1.1                 | 0.472            | 0.46       | 9.95    | 8.95    | 7.95    |
| 262167   | JRP   | SMT-1325L12STD | Tubular-pull    | 12          | 36                   | 4.0                | 0.11                       | 0.47         | 1.0 x 0.5                       | 0.200            | 0.05       | 14.95   | 13.45   | 11.95   |
| 142464   | JRP   | SMT-1130L12A   | Tubular-pull    | 12          | 36                   | 4.0                | 0.63                       | 0.40         | 1.6 x 0.4                       | 0.150            | 0.04       | 12.95   | 11.49   | 9.95    |
| 1919422  | JRP   | SMT-1632L12STD | Tubular-pull    | 12          | 26.6                 | 5.5                | 0.88                       | 0.06         | 1.6 x 0.6                       | 0.196            | 0.10       | 12.95   | 11.49   | 9.95    |
| 1919191  | ◆     | 121E18711      | Tubular-pull    | 24          | 44                   | 12.8               | 1.00                       | 1.00         | 2.3 x 1.0                       | 0.430            | 0.40       | 9.95    | 8.95    | 7.95    |
| 215141   | JRP   | SMT-2251L24AA  | Tubular-pull    | 24          | 60                   | 10.0               | 4.00                       | 1.00         | 3.0 x 1.0                       | 0.440            | 0.40       | 13.95   | 12.55   | 11.29   |
| 149754   | JRP   | SMT-1325S12A   | Tubular-push    | 12          | 36                   | 4.0                | 0.75                       | 0.47         | 1.9 x 0.5                       | 0.063            | 0.05       | 19.95   | 17.95   | 15.95   |
| 149762   | JRP   | SMT-1632S12A   | Tubular-push    | 12          | 21                   | 7.0                | 1.50                       | 0.24         | 2.5 x 0.6                       | 0.098            | 0.10       | 16.95   | 15.25   | 13.75   |
| 262175   | JRP   | SMT-2551S24STD | Tubular-push    | 24          | 57.6                 | 10.0               | 1.43                       | 0.71         | 2.0 x 1.0                       | 0.118            | 0.38       | 14.95   | 13.49   | 11.95   |
| 262191   | JRP   | SMT-325S24STD  | Tubular-push    | 24          | 44                   | 13.0               | 6.80                       | 0.70         | 2.3 x 1.3                       | 0.160            | 0.65       | 23.95   | 21.49   | 18.95   |
| 262211   | JRP   | SMT-3864S24STD | Tubular-push    | 24          | 34                   | 17.0               | 1.32                       | 1.18         | 2.52 x 1.50                     | 0.157            | 1.0        | 21.95   | 19.95   | 17.95   |
| 1919203  | LEX   | 191172-001     | Stroke-push     | 12          | 45                   | 7.3                | —                          | 0.125        | 1.0 x 0.5                       | 0.060            | 0.1        | 2.95    | 2.49    | 1.95    |

† Open frame type dimensions: L" x W" x H" \* Dual shaft ◆ Blue Part No. = Limited Quantity Available

\* JRP = Jameco ReliaPro | LEX = Lexed | ◆ Manufacturer Varies

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 197.



# DC Brushless Tubeaxial Fans & Blowers

Call for additional OEM PRICING - we carry major manufacturers.

## DC Brushless Tubeaxial Fans & Blowers

★ 5V Web Code: TAS



★ 12V Web Code: LBZ

### mm to Inches Conversion Chart

| mm     | 6.8  | 10   | 15   | 20   | 25   | 28   | 30   | 32   | 35   | 38   | 40   | 45   | 51   | 60   | 76   | 80   | 92   | 95   | 97   | 120  | 127  | 150  | 172  |
|--------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Inches | 0.27 | 0.40 | 0.60 | 0.80 | 1.00 | 1.10 | 1.18 | 1.26 | 1.40 | 1.50 | 1.60 | 1.80 | 2.00 | 2.36 | 2.99 | 3.15 | 3.63 | 3.74 | 3.82 | 4.69 | 5.00 | 5.90 | 6.77 |

| Part No. | Manufacturer | Mfr. Part No.         | Voltage (VDC) | Size mm (W x H x D) | Air Flow (CFM) | Bearing     | Current (mA) | Power (Watts) | Agency Approvals  | Noise (dBA) | Connection (Leads) | Pricing |        |        |        |
|----------|--------------|-----------------------|---------------|---------------------|----------------|-------------|--------------|---------------|-------------------|-------------|--------------------|---------|--------|--------|--------|
|          |              |                       |               |                     |                |             |              |               |                   |             |                    | 1       | 10     | 50     | 100    |
| 2095285  | Adda         | AD1505LX-K90          | 5             | 15 x 15 x 6         | 0.1            | Hypro       | 50           | 0.25          | CE                | 9.6         | 5.5"               | \$10.95 | \$9.95 | \$8.95 | \$7.95 |
| 2099809  | Sunon        | KDE0501PDB3-8         | 5             | 20 x 20 x 8         | 1.2            | Ball        | 80           | 0.4           | UL/CUL            | 21          | 5.5"               | 8.95    | 7.95   | 6.95   | 6.25   |
| 2095277  | Adda         | AD2005LX-G70          | 5             | 20 x 20 x 10        | 0.6            | Hypro       | 80           | 0.4           | UL/CUL/CSA/TUV/CE | 20          | 5.5"               | 8.95    | 7.95   | 6.95   | 6.25   |
| 131247   | Adda         | AD0205LX-G50          | 5             | 25 x 25 x 10        | 1.8            | Sleeve      | 100          | 0.5           | UL/CSA/CE         | 15.6        | 5.5"               | 14.95   | 13.49  | 11.95  | 10.95  |
| 695050   | Sunon        | GM0502PFV2-8          | 5             | 25 x 25 x 10        | 3.0            | Vapo        | 80           | 0.4           | UL/CUL            | 16          | 5.5"               | 12.95   | 11.49  | 9.95   | 8.95   |
| 1708481  | Sunon        | KDE0502PHB3-8 (MS)    | 5             | 25 x 25 x 15        | 1.8            | Ball        | 80           | 0.4           | UL/CUL            | 16          | 4"                 | 10.95   | 9.95   | 8.95   | 7.95   |
| 1928311  | Adda         | AD0305LB-K70          | 5             | 30 x 30 x 6.8       | 2.5            | Ball        | 60           | 0.3           | UL/CUL/TUV/CE     | 30          | 6"                 | 6.95    | 6.25   | 5.59   | 4.95   |
| 2099497  | Adda         | AD0305MX-K70          | 5             | 30 x 30 x 6.8       | 3.3            | Hypro       | 120          | 0.6           | UL/CSA/TUV/CE     | 27.9        | 5.5"               | 8.95    | 7.95   | 6.95   | 6.25   |
| 1951211  | Sunon        | KDE0503PEV1-8 (MSN)   | 5             | 30 x 30 x 6.8       | 4.9            | Vapo        | 180          | 0.9           | UL/TUV/CE         | 28          | 6"                 | 7.95    | 6.95   | 6.25   | 5.59   |
| 1951220  | Sunon        | KDE0503PEB3-8 (MSN)   | 5             | 30 x 30 x 6.8       | 4.9            | Ball        | 180          | 0.9           | UL/TUV/CE         | 28          | 6"                 | 9.95    | 8.95   | 7.95   | 6.95   |
| 2099489  | Adda         | AD0305HX-G50          | 5             | 30 x 30 x 10        | 4.2            | Hypro       | 170          | 0.85          | UL/CUL/TUV/CE     | 30.7        | 5.5"               | 10.95   | 9.95   | 8.95   | 7.95   |
| 1950534  | Sunon        | KDE0503PFB1-8V        | 5             | 30 x 30 x 10        | 5.1            | Ball        | 180          | 0.7           | UL/TUV            | 22.5        | 5"                 | 11.95   | 10.95  | 9.95   | 8.95   |
| 2120031  | Sunon        | GM0503PEV1-8N.GN      | 5             | 30 x 30 x 10        | 5.5            | Vapo        | 140          | 0.7           | UL/CSA/TUV        | 23          | 6"                 | 11.95   | 10.95  | 9.95   | 8.95   |
| 2095293  | Adda         | AD305HB-D50           | 5             | 30 x 30 x 15        | 3.7            | Ball        | 130          | 0.65          | UL/CUL/TUV/CE     | 22.5        | 11"                | 10.95   | 9.95   | 8.95   | 7.95   |
| 1708457  | Sunon        | KDE0504PEB3-8 (MS)    | 5             | 40 x 40 x 6.8       | 3.5            | Ball        | 90           | 0.45          | UL/CUL/TUV        | 20          | 6"                 | 8.95    | 7.95   | 6.95   | 5.95   |
| 1928361  | Adda         | AD0405MB-K90 (S)      | 5             | 40 x 40 x 6.8       | 5.5            | Ball        | 90           | 0.45          | UL/TUV/CE         | 25          | 6"                 | 10.95   | 9.95   | 8.95   | 7.95   |
| 1928353  | Adda         | AD0405HB-K90          | 5             | 40 x 40 x 6.8       | 6.0            | Ball        | 120          | 0.6           | UL/CUL/TUV/CE     | 30          | 5"                 | 11.95   | 10.95  | 9.95   | 8.95   |
| 1581249  | Sunon        | KDE0504PFB3-8         | 5             | 40 x 40 x 10        | 4.6            | Ball        | 70           | 0.35          | UL/CUL            | 23.5        | 12"                | 6.95    | 6.25   | 5.59   | 4.95   |
| 196373   | Sunon        | KD0504PFB2-8          | 5             | 40 x 40 x 10        | 5.5            | Ball        | 90           | 0.5           | UL/CUL            | 23          | 12"                | 8.95    | 7.95   | 6.95   | 5.95   |
| 2121295  | Adda         | AD0405MB-G76          | 5             | 40 x 40 x 10        | 5.7            | Ball        | 110          | 0.40          | UL/CSA/TUV/CE     | 20          | 11" <sup>1</sup>   | 8.95    | 7.95   | 6.95   | 5.95   |
| 1928370  | Adda         | AD0405HS-G70          | 5             | 40 x 40 x 10        | 6.7            | Sleeve      | 190          | 0.95          | UL/CUL/TUV/CE     | 25          | 3" w/conn          | 6.95    | 6.25   | 5.59   | 4.95   |
| 1581265  | Sunon        | KDE0504PFS1-8         | 5             | 40 x 40 x 10        | 7.0            | Sleeve      | 110          | 0.6           | UL/CUL            | 27          | 12"                | 6.95    | 6.25   | 5.59   | 4.95   |
| 1951238  | Sunon        | KDE0504PFB1-OC        | 5             | 40 x 40 x 10        | 7.5            | Ball        | 200          | 1.0           | UL/CE             | 28          | 12"                | 7.95    | 6.95   | 6.25   | 5.59   |
| 1952741  | Elina        | KDC050420MB           | 5             | 40 x 40 x 20        | 6.8            | Ball/Sleeve | 210          | 1.0           | UL/CUL/TUV        | 25.5        | 12"                | 7.95    | 6.95   | 6.25   | 5.59   |
| 2120057  | Sunon        | KD0504PKB2(2).GN      | 5             | 40 x 40 x 20        | 7.7            | Dual ball   | 142          | 0.7           | UL/CSA/TUV        | 22          | 12"                | 7.95    | 6.95   | 6.25   | 5.59   |
| 1951406  | Delta        | AFB0405HD-ROO         | 5             | 40 x 40 x 20        | 8.5            | Ball        | 400          | 2.0           | UL/CUL/TUV/CE     | 33          | 12" <sup>1</sup>   | 8.95    | 7.95   | 6.95   | 5.95   |
| 2095251  | Adda         | AD4505MX-K90          | 5             | 45 x 45 x 6         | 7.1            | Hypro       | 120          | 0.6           | CE                | 25.5        | 5.5"               | 8.95    | 7.95   | 6.95   | 6.25   |
| 1951060  | Mechatronics | M5010M05C             | 5             | 51 x 51 x 10        | 6.4            | Ball/Sleeve | 60           | 0.3           | UL/CUL/CE         | 24          | 12"                | 6.95    | 6.25   | 5.59   | 4.95   |
| 136494   | Delta        | AFB0505LA             | 5             | 51 x 51 x 10        | 7.4            | Ball/Sleeve | 80           | 0.4           | UL/CE/CSA/VDE     | 26          | 11"                | 7.95    | 6.95   | 6.25   | 5.59   |
| 1950500  | Sunon        | KDE0505PFB1-8         | 5             | 51 x 51 x 10        | 10.2           | Ball        | 170          | 0.9           | UL/TUV            | 31.5        | 12"                | 8.95    | 7.95   | 6.95   | 6.25   |
| 136275   | Delta        | BFB0505L <sup>1</sup> | 5             | 51 x 51 x 15        | 2.5            | Ball        | 140          | 0.7           | UL/CE/CSA/VDE     | 26.5        | 12"                | 9.95    | 8.95   | 7.95   | 6.95   |
| 136283   | Elina        | KDC050515MB           | 5             | 51 x 51 x 15        | 12.7           | Ball/Sleeve | 380          | 4.0           | UL/CE/CUL/TUV     | 28          | 11"                | 8.95    | 7.95   | 6.95   | 6.25   |
| 1809936  | Sunon        | KD0505PHB2 (GN)       | 5             | 51 x 51 x 15        | 12.7           | Ball        | 180          | 0.8           | UL/CUL/TUV/CE     | 27.8        | 12"                | 9.95    | 8.95   | 7.95   | 6.95   |
| 1809944  | Sunon        | KDE0506PHB3           | 5             | 60 x 60 x 15        | 15.2           | Ball        | 240          | 1.2           | UL/CUL/TUV/CE     | 26.5        | 12"                | 8.95    | 7.95   | 6.95   | 6.25   |
| 2081756  | Adda         | AD0605HB-D71GL        | 5             | 60 x 60 x 15        | 16.6           | Ball        | 370          | 1.8           | UL/CUL/CE         | 32          | 6"                 | 7.95    | 6.95   | 6.25   | 5.59   |
| 1708431  | Sunon        | KD0506PHB2            | 5             | 60 x 60 x 15        | 18.5           | Ball        | 380          | 1.9           | UL/CUL/TUV/CE     | 32          | 12"                | 9.95    | 8.95   | 7.95   | 6.95   |
| 1951414  | Delta        | AFB0605HD             | 5             | 60 x 60 x 20        | 16.6           | Ball        | 240          | 1.2           | UL/CUL/TUV/CE     | 28          | 12"                | 8.95    | 7.95   | 6.95   | 6.25   |
| 355493   | Sunon        | KD0506PTS3            | 5             | 60 x 60 x 25        | 15.9           | Sleeve      | 230          | 1.2           | UL/CUL/CE         | 26.7        | 6.5" w/conn        | 6.95    | 6.25   | 5.59   | 4.95   |
| 134869   | Delta        | AFB0605M              | 5             | 60 x 60 x 25        | 16.2           | Ball        | 220          | 1.1           | UL/CE/CSA/TUV     | 24.5        | 12"                | 7.95    | 6.95   | 6.25   | 5.59   |
| 1951078  | Mechatronics | F6025E05B2-FS         | 5             | 60 x 60 x 25        | 24             | Ball        | 700          | 3.5           | UL/CUL            | 36          | 12" <sup>2</sup>   | 8.95    | 7.95   | 6.95   | 6.25   |
| 1951086  | Mechatronics | F8025E05B2-FS         | 5             | 80 x 80 x 25        | 46             | Ball        | 800          | 4.0           | UL/CUL            | 32          | 12" <sup>2</sup>   | 9.95    | 8.95   | 7.95   | 6.95   |
| 1951094  | Mechatronics | E9225M05B2-FS         | 5             | 92 x 92 x 25        | 44             | Ball        | 560          | 2.8           | UL/CUL            | 32          | 12" <sup>2</sup>   | 8.95    | 7.95   | 6.95   | 6.25   |
| 1951107  | Mechatronics | F1238L05B2-FS         | 5             | 120 x 120 x 38      | 94             | Ball        | 800          | 4.0           | UL/CUL            | 36          | 12" <sup>2</sup>   | 10.95   | 9.95   | 8.95   | 7.95   |
| 2095269  | Adda         | AD2012LX-K70          | 12            | 20 x 20 x 6         | 0.6            | Hypro       | 60           | 0.72          | CE                | 19.5        | 5.5"               | 8.95    | 7.95   | 6.95   | 6.25   |
| 2100363  | Adda         | AD0212LX-K50-LF       | 12            | 25 x 25 x 6         | 1.8            | Hypro       | 60           | 0.3           | UL/CUL/TUV/CE     | 20.5        | 5.5"               | 9.95    | 8.95   | 7.95   | 6.95   |
| 2095306  | Adda         | AD0212MB-K50 (S)      | 12            | 25 x 25 x 6         | 2.4            | Ball/Sleeve | 90           | 1.08          | UL/CUL/TUV/CE     | 26          | 5.5"               | 11.95   | 10.95  | 9.95   | 8.95   |
| 1951641  | Adda         | AD0212LB-G50 (GL)     | 12            | 25 x 25 x 10        | 1.8            | Ball        | 70           | 0.84          | UL/CUL/CE         | 15.6        | 5.5"               | 10.95   | 9.95   | 8.95   | 7.95   |
| 2121316  | Adda         | AD0212MX-G50GL        | 12            | 25 x 25 x 10        | 2.3            | Hypo        | 80           | 0.4           | UL/CUL/TUV/CE     | 23.1        | 5.5"               | 10.95   | 9.95   | 8.95   | 7.95   |
| 1708449  | Sunon        | KDE1202PFB1-8 (V)     | 12            | 25 x 25 x 10        | 3.1            | Ball        | 83           | 1.0           | UL/CUL            | 33          | 6"                 | 10.95   | 9.95   | 8.95   | 7.95   |
| 212767   | Sunon        | KDE1203PFB3-8 (V)     | 12            | 30 x 30 x 10        | 3.2            | Ball        | 50           | 0.6           | UL/CE             | 18.5        | 6"                 | 8.95    | 7.95   | 6.95   | 6.25   |
| 1708465  | Sunon        | KDE1203PFB2-8 (MS)    | 12            | 30 x 30 x 10        | 4.2            | Ball        | 66           | 0.8           | UL/CUL            | 25          | 6"                 | 8.95    | 7.95   | 6.95   | 6.25   |
| 212784   | Sunon        | KDE1203PFB1-8V        | 12            | 30 x 30 x 10        | 5.1            | Ball        | 75           | 0.9           | UL/CUL/TUV/CENDE  | 27          | 4"                 | 9.95    | 8.95   | 7.95   | 6.95   |
| 212783   | Sunon        | KDE1203PFB1-8         | 12            | 30 x 30 x 10        | 5.1            | Ball        | 75           | 0.9           | UL/CUL/TUV/CENDE  | 27          | 5.9"               | 10.95   | 9.95   | 8.95   | 7.95   |
| 1928134  | Adda         | AD0312HB-D50          | 12            | 30 x 30 x 15        | 4.2            | Ball        | 110          | 1.3           | UL/CUL/TUV/CE     | 22.5        | 3" w/conn          | 6.95    | 6.25   | 5.59   | 4.95   |
| 212741   | Sunon        | KDE1235PFB2-8         | 12            | 36 x 36 x 10        | 4.5            | Ball        | 60           | 0.8           | UL/CUL/TUV/CE/VDE | 21          | 5.9"               | 9.95    | 8.95   | 7.95   | 6.95   |
| 212760   | Sunon        | GM1235PFV1-8          | 12            | 36 x 36 x 10        | 7.0            | Vapo        | 80           | 1.0           | UL/CUL/TUV/CE     | 28          | 6"                 | 14.95   | 13.49  | 11.95  | 10.95  |
| 1951490  | Adda         | AD0412HB-K90          | 12            | 40 x 40 x 6.8       | 6.0            | Ball/Sleeve | 80           | 1.0           | UL/CUL/TUV/CE     | 30          | 5.5"               | 8.95    | 7.95   | 7.19   | 6.49   |
| 2099500  | Adda         | AD0412HB-K96          | 12            | 40 x 40 x 6.8       | 6.0            | Ball        | 80           | 0.72          | UL/CUL/TUV/CE     | 30          | 5.5" <sup>1</sup>  | 8.95    | 7.95   | 6.95   | 6.25   |
| 2100013  | Delta        | AFB0405LD             | 12            | 40 x 40 x 10        | 3.9            | Ball        | 60           | 0.3           | UL/CSA/VDE/CE     | 25          | 13" <sup>2</sup>   | 5.95    | 5.35   | 4.79   | 4.29   |

<sup>1</sup> 3 leads; speed sensor    <sup>2</sup> 3 leads; locked rotor protection    (These functions are optional, if needed)    <sup>†</sup> Blower

Fans continued on next page

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### mm to Inches Conversion Chart

| mm     | 6.8  | 10   | 15   | 20   | 25   | 28   | 30   | 32   | 35   | 38   | 40   | 45   | 51   | 60   | 76   | 80   | 92   | 95   | 97   | 120  | 127  | 150  | 172  |
|--------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Inches | 0.27 | 0.40 | 0.60 | 0.80 | 1.00 | 1.10 | 1.18 | 1.26 | 1.40 | 1.50 | 1.60 | 1.80 | 2.00 | 2.36 | 2.99 | 3.15 | 3.63 | 3.74 | 3.82 | 4.69 | 5.00 | 5.90 | 6.77 |

| Part No. | Manufacturer  | Mfr. Part No.           | Voltage (VDC) | Size mm (W x H x D) | Air Flow (CFM) | Bearing   | Current (mA) | Power (Watts) | Agency Approvals | Noise (dBA) | Connection (Leads) | Pricing |        |        |        |
|----------|---------------|-------------------------|---------------|---------------------|----------------|-----------|--------------|---------------|------------------|-------------|--------------------|---------|--------|--------|--------|
|          |               |                         |               |                     |                |           |              |               |                  |             |                    | 1       | 10     | 50     | 100    |
| 1950526  | Sunon         | KD1204PFS3H             | 12            | 40 x 40 x 10        | 4.2            | Sleeve    | 60           | 0.7           | UL/TUV           | 22          | 12"                | \$5.95  | \$5.35 | \$4.79 | \$4.29 |
| 2095314  | Adda          | AD0412LX-G70            | 12            | 40 x 40 x 10        | 4.7            | Hypro     | 70           | 0.84          | UL/CUL/TUV/CE    | 14          | 12"                | 6.95    | 6.25   | 5.59   | 4.95   |
| 210797   | Sunon         | KD1204PFV3              | 12            | 40 x 40 x 10        | 4.9            | Vapo      | 60           | 0.6           | UL/CUL/TUV/CE    | 24          | 12"                | 6.95    | 6.25   | 5.59   | 4.95   |
| 279611   | Toyo          | T401012VH               | 12            | 40 x 40 x 10        | 5.8            | Ball      | 90           | 1.1           | UL/CUL/TUV/CE    | 33.5        | 12"                | 4.95    | 4.49   | 3.95   | 3.59   |
| 1585469  | Y.S. Tech     | FD1240107B-2N           | 12            | 40 x 40 x 10        | 6.6            | Ball      | 90           | 1.08          | UL/CUL/TUV       | 29          | 6"                 | 5.95    | 4.95   | 4.49   | 3.95   |
| 1928054  | Adda          | AD0412HB-G70            | 12            | 40 x 40 x 10        | 6.7            | Ball      | 100          | 1.2           | UL/CUL/TUV/CE    | 25          | 2.5" w/conn        | 5.95    | 5.35   | 4.79   | 4.29   |
| 2100380  | Adda          | AD0412HX-G71-LF         | 12            | 40 x 40 x 10        | 6.7            | Hypo      | 100          | 1.2           | UL/CUL/TUV/CE    | 25          | 10" 2              | 7.95    | 6.95   | 6.25   | 5.59   |
| 290010   | Adda          | AD0412HB-G70            | 12            | 40 x 40 x 10        | 6.7            | Ball      | 100          | 1.2           | UL/CUL/TUV/CE    | 25          | 10" w/conn         | 9.95    | 8.95   | 7.95   | 6.95   |
| 212717   | Sunon         | KDE1204PFV2.11.MS.A.GN  | 12            | 40 x 40 x 10        | 7.0            | Vapo      | 80           | 1.0           | UL/CUL/TUV/CE/DE | 27          | 12"                | 6.95    | 6.25   | 5.59   | 4.95   |
| 1950139  | Sunon         | KDE1204PFS2-11          | 12            | 40 x 40 x 10        | 7.0            | Sleeve    | 92           | 1.1           | UL/CUL/TUV/CE    | 27          | 12"                | 6.95    | 6.25   | 5.59   | 4.95   |
| 2081924  | Sunon         | KDE1204PFB2             | 12            | 40 x 40 x 10        | 7.5            | Ball      | 90           | 1.1           | UL/CUL/TUV/CE    | 30          | 12"                | 8.95    | 7.95   | 6.95   | 5.95   |
| 189691   | Sunon         | KD1204PFS1-11.GN        | 12            | 40 x 40 x 10        | 8.0            | Sleeve    | 60           | 0.7           | UL/CUL/TUV/CE    | 30          | 12"                | 7.95    | 7.19   | 6.49   | 5.79   |
| 212725   | Sunon         | KDE1204PFV1             | 12            | 40 x 40 x 10        | 8.3            | Vapo      | 110          | 1.4           | UL/CUL/TUV/CE/DE | 34.4        | 12"                | 6.95    | 6.25   | 5.59   | 4.95   |
| 1708473  | Sunon         | KDE1204PFVX.11.MS.A     | 12            | 40 x 40 x 10        | 9.5            | Vapo      | 150          | 1.8           | UL/CUL/TUV       | 39          | 12"                | 6.95    | 6.25   | 5.59   | 4.95   |
| 136178   | Adda          | AD0412MS-C70            | 12            | 40 x 40 x 20        | 5.0            | Sleeve    | 110          | 1.32          | UL/CSA           | 23          | 9"                 | 5.95    | 5.39   | 4.79   | 4.29   |
| 1809856  | Sunon         | GM1204PKV3-A            | 12            | 40 x 40 x 20        | 6.3            | Vapo      | 50           | 0.6           | UL/CSA/TUV       | 18          | 12"                | 6.95    | 6.25   | 5.59   | 4.95   |
| 195899   | Sunon         | KDE1204PKS2             | 12            | 40 x 40 x 20        | 6.5            | Sleeve    | 70           | 0.9           | UL/CSA/TUV       | 25.5        | 12"                | 5.95    | 5.39   | 4.79   | 4.29   |
| 279620   | Toyo          | T402012H                | 12            | 40 x 40 x 20        | 6.7            | Ball      | 70           | 0.84          | UL/CUL/TUV/CE    | 26.2        | 12"                | 6.95    | 6.25   | 5.59   | 4.95   |
| 2120065  | Sunon         | KD1204PKB2(2)GN         | 12            | 40 x 40 x 20        | 7.7            | Dual ball | 62           | 0.7           | UL/CSA/TUV       | 22          | 12"                | 6.95    | 6.25   | 5.59   | 4.95   |
| 687754   | Sunon         | KDE1204PKSX-8           | 12            | 40 x 40 x 20        | 9.5            | Sleeve    | 90           | 1.1           | UL/CSA           | 28          | 11"                | 6.95    | 6.25   | 5.59   | 4.95   |
| 2099518  | Adda          | AD0412UB-C51            | 12            | 40 x 40 x 20        | 9.9            | Ball      | 180          | 2.16          | UL/CUL/TUV/CE    | 36.1        | 11"                | 7.95    | 6.95   | 6.25   | 5.59   |
| 2082100  | Sunon         | KDE1204PKBX-8           | 12            | 40 x 40 x 20        | 10             | Ball      | 90           | 1.1           | UL/TUV/CE        | 29.4        | 4"                 | 7.95    | 6.95   | 6.25   | 5.59   |
| 2099841  | Delta         | EFB0412VHD-R00          | 12            | 40 x 40 x 20        | 10.1           | Dual ball | 120          | 1.4           | UL/CSA/DE/CE     | 32.5        | 12" 2              | 9.95    | 8.95   | 7.95   | 6.95   |
| 1928118  | Adda          | AD4012HB-C50            | 12            | 40 x 40 x 20        | 10.5           | Ball      | 100          | 1.2           | UL/CUL/TUV/CE    | 31.9        | 12"                | 9.95    | 8.95   | 7.95   | 6.95   |
| 1585291  | Sunon         | GM1204PKVX-A            | 12            | 40 x 40 x 20        | 10.8           | Vapo      | 130          | 1.6           | UL/CUL/CSA       | 27.5        | 5"                 | 6.95    | 6.25   | 5.59   | 4.95   |
| 2082089  | Sanyo Denki   | 109P0412H302            | 12            | 40 x 40 x 28        | 11.3           | Ball      | 195          | 2.3           | UL/CSA/TUV       | 37          | 3.75"              | 6.95    | 6.25   | 5.59   | 4.95   |
| 2095162  | Sunon         | PMD1204PQBX-A(2)F       | 12            | 40 x 40 x 28        | 23.5           | Ball      | 570          | 6.8           | UL/CE            | 51.5        | 3" w/conn 1        | 12.95   | 11.49  | 9.95   | 8.95   |
| 1951246  | Sunon         | PMD1204PQBX-A(2)        | 12            | 40 x 40 x 28        | 23.5           | Ball      | 570          | 6.8           | UL/CE            | 51.5        | 12"                | 14.95   | 13.49  | 11.95  | 10.95  |
| 1951254  | Sunon         | PMD1204PQBX-A(2)F       | 12            | 40 x 40 x 28        | 23.5           | Ball      | 570          | 6.8           | UL/CE            | 51.5        | 12" 1              | 14.95   | 13.49  | 11.95  | 10.95  |
| 1950753  | Comair Rotron | CR4512MB-G70            | 12            | 45 x 45 x 10        | 6.9            | Ball      | 70           | 0.8           | UL/CUL/CE/TUV    | 21.6        | 12"                | 6.95    | 6.25   | 5.59   | 4.95   |
| 2095322  | Adda          | AD4512HX-G70            | 12            | 45 x 45 x 10        | 9.1            | Hypro     | 90           | 1.08          | UL/CUL/TUV/CE    | 27.4        | 11"                | 7.95    | 6.95   | 6.25   | 5.59   |
| 2100371  | Adda          | AD0512LX-G70LF          | 12            | 51 x 51 x 10        | 9.0            | Hypro     | 60           | 0.72          | UL/CSA/TUV/CE    | 20          | 11"                | 5.95    | 5.35   | 4.79   | 4.29   |
| 1918809  | Jamicon       | KF0510B1M               | 12            | 51 x 51 x 10        | 9.27           | Ball      | 80           | 0.8           | UL/CUL/TUV/CE    | 26.6        | 10.5"              | 5.95    | 5.35   | 4.79   | 4.29   |
| 2095331  | Adda          | AD0512HX-G70            | 12            | 51 x 51 x 10        | 10.5           | Hypro     | 120          | 1.4           | UL/CUL/TUV/CE    | 24          | 11"                | 5.95    | 5.35   | 4.79   | 4.29   |
| 2095349  | Adda          | AD0512MB-G76            | 12            | 51 x 51 x 10        | 10.5           | Ball      | 120          | 1.4           | UL/CUL/TUV/CE    | 24          | 11" 1              | 7.95    | 6.95   | 6.25   | 5.59   |
| 1950446  | Sunon         | KD1205PFB1(2)H          | 12            | 51 x 51 x 10        | 11.4           | Ball      | 130          | 1.6           | UL/TUV           | 34.7        | 12"                | 7.95    | 6.95   | 6.25   | 5.59   |
| 2100419  | Adda          | AD0512HB-G70-LF         | 12            | 51 x 51 x 10        | 11.8           | Ball      | 90           | 1.08          | UL/CSA/TUV/CE    | 27          | 11"                | 8.95    | 7.95   | 6.95   | 6.25   |
| 125006   | Nidec         | A33999-16               | 12            | 51 x 51 x 15        | 4.0            | Ball      | 170          | 2.04          | UL/CE            | 46          | 11"                | 8.95    | 7.95   | 6.95   | 6.25   |
| 139601   | Adda          | AD0512HS-D71            | 12            | 51 x 51 x 15        | 12             | Sleeve    | 100          | 1.2           | UL/CSA/CE        | 29          | 5"                 | 6.95    | 6.25   | 5.59   | 4.95   |
| 2099534  | Adda          | AD5012MX-D71            | 12            | 51 x 51 x 15        | 12.6           | Hypro     | 100          | 1.2           | UL/CUL/TUV/CE    | 29          | 5.5"               | 7.95    | 6.95   | 6.25   | 5.59   |
| 1809813  | Sunon         | GM1205PHV1-AR           | 12            | 51 x 51 x 15        | 17             | Vapo      | 130          | 1.5           | UL/CUL/TUV/CE    | 33          | 12" 2              | 7.95    | 6.95   | 6.25   | 5.59   |
| 2095357  | Adda          | AD0612HB-G70            | 12            | 60 x 60 x 10        | 14.5           | Ball      | 150          | 1.8           | UL/CUL/TUV/CE    | 32          | 11"                | 9.95    | 8.95   | 7.95   | 6.95   |
| 1946025  | Evercool      | EC6010M12CA             | 12            | 60 x 60 x 10        | 15.5           | Ball      | 160          | 1.9           | UL/CE/TUV        | 30          | 9" 1               | 8.95    | 7.95   | 6.95   | 6.25   |
| 2115522  | Everflow      | R126010DU               | 12            | 60 x 60 x 10        | 19.41          | Ball      | 250          | 3             | UL/CE/TUV        | 37          | 9" w/ conn 1       | 8.95    | 7.95   | 6.95   | 6.25   |
| 1928046  | Adda          | AD0612LX-D70GL          | 12            | 60 x 60 x 15        | 12             | Hypro     | 90           | 1.08          | UL/CUL/TUV/CE    | 27.2        | 8"                 | 5.95    | 5.59   | 4.95   | 4.49   |
| 2078178  | Delta         | AFB0612MB               | 12            | 60 x 60 x 15        | 13.4           | Ball      | 80           | 0.96          | UL/CUL/TUV/CE    | 29          | 12"                | 7.95    | 6.95   | 6.25   | 5.59   |
| 195945   | Adda          | AD612MS-D71GL           | 12            | 60 x 60 x 15        | 14.2           | Sleeve    | 110          | 1.32          | UL/CSA/TUV/CE    | 28.8        | 6"                 | 8.95    | 7.95   | 6.95   | 6.25   |
| 249069   | Jamicon       | JF0615B1H-000-243       | 12            | 60 x 60 x 15        | 15.7           | Ball      | 170          | 2.04          | UL/CUL/TUV/CE    | 34          | 12"                | 9.95    | 8.95   | 7.95   | 6.95   |
| 2121308  | Adda          | AD0612HB-D70GL          | 12            | 60 x 60 x 15        | 16.6           | Ball      | 130          | 1.56          | UL/CSA/TUV/CE    | 32.4        | 11" w/ conn        | 9.95    | 8.95   | 7.95   | 6.95   |
| 687771   | Sunon         | KDE1206PHS1             | 12            | 60 x 60 x 15        | 21             | Sleeve    | 150          | 1.8           | UL/CSA/TUV/CE    | 36          | 11"                | 8.95    | 7.95   | 6.95   | 6.25   |
| 1585400  | Sunon         | KDE1206PHB1             | 12            | 60 x 60 x 15        | 21             | Ball      | 150          | 1.8           | UL/CSA/CE        | 37.5        | 11"                | 10.95   | 9.95   | 8.95   | 7.95   |
| 144161   | Adda          | AD0612LB-C70GL          | 12            | 60 x 60 x 20        | 12.6           | Ball      | 80           | 1.0           | UL/CSA/TUV       | 22.7        | 6"                 | 9.95    | 8.95   | 7.95   | 6.95   |
| 1928126  | Adda          | AD0612HB-C70GL          | 12            | 60 x 60 x 20        | 16.3           | Ball      | 160          | 1.92          | UL/CSA/TUV/CE    | 31          | 12"                | 9.95    | 8.95   | 7.95   | 6.95   |
| 189595   | Sunon         | KD1206PKS2              | 12            | 60 x 60 x 20        | 16.5           | Sleeve    | 150          | 1.8           | UL/CSA/TUV/CE    | 31          | 12"                | 7.95    | 6.95   | 6.25   | 5.59   |
| 119635   | Delta/Fonsan  | DFD0612H                | 12            | 60 x 60 x 20        | 17.7           | Ball      | 110          | 1.3           | UL/CE/CSA/DE     | 30          | 12"                | 6.95    | 6.25   | 5.59   | 4.95   |
| 1951182  | Sunon         | KDE1206PKV2.MS.A.GN     | 12            | 60 x 60 x 20        | 18.5           | Vapo      | 90           | 0.8           | UL/CE            | 27.5        | 11"                | 7.95    | 6.95   | 6.25   | 5.59   |
| 2120073  | Sunon         | KD1206PKB2(2)F.GN       | 12            | 60 x 60 x 20        | 19             | Dual ball | 88           | 1.1           | UL/CUL/TUV       | 29          | 12" 1              | 7.95    | 6.95   | 6.25   | 5.59   |
| 114682   | Delta         | AFB0612VHD              | 12            | 60 x 60 x 20        | 30             | Ball      | 270          | 2.4           | UL/CE/CSA/DE     | 39.5        | 12"                | 8.95    | 7.95   | 6.95   | 6.25   |
| 2120081  | Sunon         | KDE1206PTV3.13.MS.AF.GN | 12            | 60 x 60 x 25        | 16             | Vapo      | 110          | 0.7           | UL/CSA/TUV       | 21          | 12" 1              | 7.95    | 6.95   | 6.25   | 5.59   |
| 1810101  | Japan Servo   | TUDC12Z4F-022           | 12            | 60 x 60 x 25        | 19             | Ball      | 140          | 1.8           | UL/CSA/TUV       | 32          | 5" w/ conn         | 5.95    | 5.39   | 4.79   | 4.29   |
| 2095197  | Delta         | DFB0612H                | 12            | 60 x 60 x 25        | 19.4           | Ball      | 120          | 1.4           | UL/CE/CSA/DE     | 30          | 12"                | 7.95    | 6.95   | 6.25   | 5.59   |

1 3 leads; speed sensor 2 3 leads; locked rotor protection (These functions are optional, if needed) † Blower • Blue Part No. = Limited Quantity Available

Fans continued on next page

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 197.

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## DC Brushless Tubeaxial Fans & Blowers (Continued)



★ 12V Web Code: LBZ



644842

1810030

1928100

1809995

| Part No. | Manufacturer  | Mfr. Part No.              | Voltage (VDC) | Size mm (W x H x D) | Air Flow (CFM) | Bearing     | Current (mA) | Power (Watts) | Agency Approvals | Noise (dBA) | Connection (Leads)        | Pricing |        |        |        |
|----------|---------------|----------------------------|---------------|---------------------|----------------|-------------|--------------|---------------|------------------|-------------|---------------------------|---------|--------|--------|--------|
|          |               |                            |               |                     |                |             |              |               |                  |             |                           | 1       | 10     | 50     | 100    |
| 102947   | Jamicon       | JF0625S1H                  | 12            | 60 x 60 x 25        | 20.5           | Sleeve      | 230          | 2.7           | UL/CUL/TUV       | 33.6        | 12"                       | \$7.95  | \$6.95 | \$6.25 | \$5.59 |
| 150422   | Jamicon       | JF0625B1H                  | 12            | 60 x 60 x 25        | 21.4           | Ball        | 230          | 2.7           | UL/CSA/TUV       | 30.5        | 10"                       | 8.95    | 7.95   | 6.95   | 6.25   |
| 195911   | Sunon         | KD1206PTS1AGN              | 12            | 60 x 60 x 25        | 21.7           | Sleeve      | 190          | 2.3           | UL/CSA/TUV       | 34          | 12"                       | 9.95    | 8.95   | 7.95   | 6.95   |
| 689240   | Sunon         | KDE1206PTB1                | 12            | 60 x 60 x 25        | 22.5           | Ball        | 190          | 2.2           | UL/CUL/TUV/CE    | 34          | 11" w/ conn. <sup>1</sup> | 8.95    | 7.95   | 6.95   | 6.25   |
| 114674   | Delta         | AFB0612HH-R00              | 12            | 60 x 60 x 25        | 23             | Ball        | 180          | 2.16          | UL/CE/CSA/VDE    | 33          | 12" <sup>2</sup>          | 7.95    | 6.95   | 6.25   | 5.59   |
| 1951043  | Mechatronics  | 6025E12B3-FS               | 12            | 60 x 60 x 25        | 24             | Ball        | 230          | 3.5           | UL/CUL           | 36          | 12" <sup>3</sup>          | 7.95    | 6.95   | 6.25   | 5.59   |
| 2099526  | Adda          | AD0612XB-A74GL             | 12            | 60 x 60 x 25        | 31.4           | Ball        | 380          | 4.56          | UL/CSA/TUV/CE    | 42.9        | 12" <sup>1</sup>          | 9.95    | 8.95   | 7.95   | 6.95   |
| 2081288  | Sunon         | PDM1206PMB1-A(2).F12       | 12            | 60 x 60 x 38        | 56.5           | Dual Ball   | 880          | 10.6          | UL/CUL/TUV/CE    | 56          | 12" <sup>1</sup>          | 12.95   | 11.49  | 9.95   | 8.95   |
| 123941   | Nidec         | DO7R-12TL018               | 12            | 70 x 70 x 15        | 19.8           | Ball        | 80           | 0.96          | UL/CSA           | 27          | 23" <sup>2</sup>          | 12.95   | 11.49  | 9.95   | 8.95   |
| 644842   | Evercool      | EC7530M12S-B <sup>1</sup>  | 12            | 76 x 72 x 30        | 10.8           | Sleeve      | 170          | 2.0           | UL/CE/TUV        | 30          | 8" w/ conn                | 9.95    | 8.95   | 7.95   | 6.95   |
| 2099446  | Adda          | AD7512LB (2A) <sup>2</sup> | 12            | 76 x 76 x 30        | 6.9            | Ball        | 110          | 1.32          | UL/CUL/TUV/CE    | 29          | 15" w/conn. <sup>2</sup>  | 9.95    | 8.95   | 7.95   | 6.95   |
| 132951   | Shicoh        | A0815-12HV                 | 12            | 80 x 80 x 15        | 18.4           | Ball/Sleeve | 200          | 2.4           | —                | 32          | 12" <sup>1</sup>          | 6.95    | 6.25   | 5.59   | 4.95   |
| 2099462  | Adda          | AD0812LB-D70               | 12            | 80 x 80 x 15        | 20             | Ball        | 120          | 1.44          | UL/CSA/TUV/CE    | 19.6        | 6" w/conn                 | 6.95    | 6.25   | 5.59   | 4.95   |
| 401269   | Delta         | AFB0812LB                  | 12            | 80 x 80 x 15        | 24.7           | Ball        | 140          | 1.68          | UL/CSA/TUV       | 27.5        | 10"                       | 8.95    | 7.95   | 6.95   | 6.25   |
| 1950163  | Sunon         | KD1208PHB3H                | 12            | 80 x 80 x 15        | 25.5           | Ball        | 120          | 1.4           | CE               | 28          | 12"                       | 8.95    | 7.95   | 6.95   | 6.25   |
| 109082   | Adda          | AD0812HS-D71               | 12            | 80 x 80 x 15        | 29             | Sleeve      | 190          | 2.3           | UL/CSA/TUV/CE    | 31.4        | 12"                       | 9.95    | 8.95   | 7.95   | 6.95   |
| 1708570  | Sunon         | KD1208PHB1-AH              | 12            | 80 x 80 x 15        | 35             | Ball        | 240          | 2.9           | UL/CUL/TUV/CE    | 39.5        | 12"                       | 10.95   | 9.95   | 8.95   | 7.95   |
| 2095365  | Adda          | AD0812XX-D71               | 12            | 80 x 80 x 15        | 39.4           | Hypro       | 350          | 4.2           | UL/CSA/TUV/CE    | 42          | 11"                       | 10.95   | 9.95   | 8.95   | 7.95   |
| 141921   | Adda          | AD0812HB-C70               | 12            | 80 x 80 x 20        | 27.3           | Ball        | 240          | 2.9           | UL/CSA/CE        | 34          | 12"                       | 10.95   | 9.95   | 8.95   | 7.95   |
| 2081748  | Sunon         | KDE1208PKV1.13.MS.A        | 12            | 80 x 80 x 20        | 36             | Vapo        | 130          | 1.6           | UL/CUL/TUV/CE    | 38          | 12"                       | 10.95   | 9.95   | 8.95   | 7.95   |
| 688597   | NMB           | 3110GL-B4W-B19             | 12            | 80 x 80 x 25        | 24.7           | Ball        | 100          | 1.2           | UL/CSA/TUV/CE    | 22          | 7" w/ conn. <sup>1</sup>  | 5.95    | 5.35   | 4.79   | 4.29   |
| 154289   | Sunon         | KDE1208PTS3-6              | 12            | 80 x 80 x 25        | 29.4           | Sleeve      | 120          | 1.4           | UL/CSA/TUV/CE    | 24.5        | 12"                       | 6.95    | 6.25   | 5.59   | 4.95   |
| 1952759  | Max Flow      | MF8025D1-LSPS              | 12            | 80 x 80 x 25        | 31.1           | Sleeve      | 130          | 1.56          | UL               | 29          | 7" w/ conn.               | 5.95    | 5.39   | 4.79   | 4.29   |
| 123530   | Adda          | AD0812MS-A70GL             | 12            | 80 x 80 x 25        | 32             | Sleeve      | 150          | 1.8           | UL/CSA/TUV       | 28.3        | 12"                       | 7.95    | 6.95   | 6.25   | 5.59   |
| 1955010  | NMB           | 3110KL-Q4W-B40             | 12            | 80 x 80 x 25        | 35.3           | Ball        | 200          | 2.40          | UL/CSA/TUV/CE    | 31          | 13"                       | 6.95    | 6.25   | 5.59   | 4.95   |
| 1950147  | Sunon         | KD1208PTB2(2)HM            | 12            | 80 x 80 x 25        | 36             | Ball        | 160          | 2.1           | UL/CE/TUV        | 29          | 11" <sup>1</sup>          | 7.95    | 6.95   | 6.25   | 5.59   |
| 1810030  | Sanyo Denki   | 109R0812H4011              | 12            | 80 x 80 x 25        | 36.4           | Ball        | 130          | 1.56          | UL/CSA/TUV       | 29          | 12" <sup>1</sup>          | 6.95    | 6.25   | 5.59   | 4.95   |
| 1537387  | Sunon         | KD1208PTB213.(2).GN        | 12            | 80 x 80 x 25        | 37             | Ball        | 110          | 1.3           | UL/CUL/TUV/CE    | 32          | 11.5" w/ conn.            | 9.95    | 8.95   | 7.95   | 6.95   |
| 1928038  | Adda          | AD0812HS-A70GL             | 12            | 80 x 80 x 25        | 38.6           | Sleeve      | 250          | 3.0           | UL/CSA/TUV/CE    | 34.4        | 12"                       | 5.95    | 5.35   | 4.79   | 4.29   |
| 1928100  | Adda          | AD0812HX-A70GL             | 12            | 80 x 80 x 25        | 38.6           | Hydro wave  | 250          | 3.0           | UL/CSA/TUV/CE    | 34          | 12"                       | 5.95    | 5.35   | 4.79   | 4.29   |
| 2078194  | Adda          | AD0812HS-A73               | 12            | 80 x 80 x 25        | 38.6           | Sleeve      | 250          | 3.0           | UL/CSA/TUV       | 34.3        | 12" <sup>1</sup>          | 6.95    | 6.25   | 5.59   | 4.95   |
| 662661   | NMB-MAT       | FBA08A12H1BS               | 12            | 80 x 80 x 25        | 39.6           | Hydro wave  | 173          | 2.1           | UL/CSA/TUV       | 32          | 12" <sup>2</sup>          | 6.95    | 6.25   | 5.59   | 4.95   |
| 1585477  | Sunon         | KD1208PTS1-13              | 12            | 80 x 80 x 25        | 40             | Sleeve      | 160          | 1.90          | UL/CUL/TUV/CE    | 33          | 12"                       | 5.95    | 5.35   | 4.79   | 4.49   |
| 1950569  | Sunon         | KD1208PTS1 H.M             | 12            | 80 x 80 x 25        | 40             | Sleeve      | 160          | 2.6           | UL/CE            | 33          | 12" <sup>1</sup>          | 5.95    | 5.35   | 4.79   | 4.39   |
| 1708490  | Sunon         | KDE1208PTB1.13.MS(2)A      | 12            | 80 x 80 x 25        | 41             | Dual Ball   | 150          | 1.8           | UL/CUL/TUV/CE    | 35          | 12"                       | 7.95    | 6.95   | 6.25   | 5.59   |
| 206181   | Sunon         | KDE1208PTS1-6              | 12            | 80 x 80 x 25        | 42             | Sleeve      | 220          | 2.6           | UL/CSA/TUV/CE    | 34          | 9"                        | 7.95    | 6.95   | 6.25   | 5.59   |
| 355401   | ReliaPro      | RDH80025B1                 | 12            | 80 x 80 x 25        | 42             | Ball        | 230          | 2.8           | UL/CUL/TUV/CE    | 28.6        | 12"                       | 8.95    | 7.95   | 6.95   | 6.25   |
| 2081271  | Sunon         | KDE1208PTB1-6(OCM)         | 12            | 80 x 80 x 25        | 42.5           | Ball        | 220          | 2.6           | UL/CUL/TUV/CE    | 36.5        | 12" <sup>1</sup>          | 6.95    | 6.25   | 5.59   | 4.95   |
| 249148   | Sunon         | KDE1208PTB1-6(OC)          | 12            | 80 x 80 x 25        | 42.5           | Ball        | 220          | 2.6           | UL/CUL/TUV/CE    | 36.5        | 12"                       | 7.95    | 6.95   | 6.25   | 5.59   |
| 2120225  | Y.S. Tech     | FD128025HS                 | 12            | 80 x 80 x 25        | 43.7           | Sleeve      | 230          | 2.76          | UL/CSA/TUV       | 33.5        | 13"                       | 6.95    | 6.25   | 5.59   | 4.95   |
| 2100401  | Adda          | AD0812UB-A72GL             | 12            | 80 x 80 x 25        | 43.8           | Ball        | 300          | 3.6           | UL/CUL/TUV/CE    | 40          | 11" <sup>2</sup>          | 8.95    | 7.95   | 6.95   | 6.25   |
| 1918729  | Jamicon       | JF0825S1SR                 | 12            | 80 x 80 x 25        | 45.5           | Sleeve      | 260          | 3.12          | UL/CUL/TUV/CE    | 35.8        | 12" w/ conn.              | 7.95    | 6.95   | 6.25   | 5.59   |
| 421526   | Panasonic     | FBA08A12U-1AZ              | 12            | 80 x 80 x 25        | 47             | Sleeve      | 360          | 4.32          | UL/CSA           | 38.2        | 11"                       | 7.95    | 6.95   | 6.25   | 5.59   |
| 1809995  | Sunon         | KDE1208PTB-6A(318)         | 12            | 80 x 80 x 25        | 50.6           | Ball        | 360          | 4.3           | UL/CUL/TUV/CE    | 40.5        | 12"                       | 13.95   | 12.49  | 10.95  | 9.95   |
| 2081078  | Jamicon       | JF0825B1UR                 | 12            | 80 x 80 x 25        | 52             | Dual Ball   | 370          | 4.4           | UL/CUL/TUV/CE    | 40          | 12"                       | 11.95   | 10.95  | 9.95   | 8.95   |
| 2081692  | Y.S. Tech     | NFD128125BB-2F             | 12            | 80 x 80 x 25        | 59.2           | Dual Ball   | 450          | 5.4           | UL/CUL/TUV       | 44          | 20" w/ conn. <sup>1</sup> | 12.95   | 11.49  | 10.49  | 9.49   |
| 695682   | Comair Rotron | O30615/ST12B3              | 12            | 80 x 80 x 32        | 34             | Ball        | 280          | 3.4           | UL/CUL/TUV/CE    | 40.9        | 12"                       | 19.95   | 17.95  | 16.25  | 14.49  |
| 107406   | EBM Papst     | 8312GHL                    | 12            | 80 x 80 x 32        | 39.4           | Sleeve      | 330          | 4.0           | UL/CE/CSA/VDE    | 43          | 12"                       | 14.95   | 13.49  | 11.95  | 10.95  |
| 1951166  | Nidec         | TA350DC-M33416-16          | 12            | 92 x 92 x 25        | 28             | Ball        | 110          | 1.32          | UL/CSA           | 19.5        | 11"                       | 7.95    | 6.95   | 6.25   | 5.59   |
| 1928089  | Adda          | AD0912LS-A70GL             | 12            | 92 x 92 x 25        | 32.4           | Sleeve      | 130          | 1.6           | UL/CUL/TUV/CE    | 23.5        | 12"                       | 6.95    | 6.25   | 5.59   | 4.95   |
| 1952783  | Nidec         | TA350DC-M34138-34          | 12            | 92 x 92 x 25        | 35             | Ball        | 160          | 1.92          | UL/CSA           | 26.4        | 10" w/ conn. <sup>5</sup> | 6.95    | 6.25   | 5.59   | 4.95   |
| 1952257  | AVC           | C9025S12L                  | 12            | 92 x 92 x 25        | 37.2           | Sleeve      | 150          | 1.8           | UL/CUL/TUV/CE    | 26.2        | 5.5" <sup>1</sup>         | 7.95    | 6.95   | 6.25   | 5.59   |
| 1928097  | Adda          | AD0912LX-A70GL             | 12            | 92 x 92 x 25        | 37.9           | Hypro       | 120          | 1.44          | UL/CUL/TUV/CE    | 26.5        | 12"                       | 9.95    | 8.95   | 7.95   | 6.95   |
| 1928003  | Adda          | AD0912MB-A71GL             | 12            | 92 x 92 x 25        | 44.2           | Ball        | 170          | 2.0           | UL/CUL/TUV/CE    | 32.7        | 12"                       | 9.95    | 8.95   | 7.95   | 6.95   |
| 1952880  | Nidec         | TA350DC-M33422-57G4        | 12            | 92 x 92 x 25        | 48             | Ball        | 290          | 3.48          | UL/CSA           | 35          | 10" w/ conn. <sup>4</sup> | 8.95    | 7.95   | 6.95   | 6.25   |
| 154641   | Nidec         | TA350DC-M33422-16          | 12            | 92 x 92 x 25        | 48             | Ball        | 290          | 3.5           | UL/CSA           | 43          | 12"                       | 9.95    | 8.95   | 7.95   | 6.95   |
| 1952935  | Sunon         | KD1209PTB2-6               | 12            | 92 x 92 x 25        | 48             | Dual Ball   | 500          | 2.1           | UL/CSA/TUV/CE    | 32          | 25" w/ conn. <sup>4</sup> | 10.95   | 9.95   | 8.95   | 7.95   |
| 2115565  | Sunon         | KD1209PTS1.13.GN           | 12            | 92 x 92 x 25        | 49             | Sleeve      | 160          | 1.9           | UL/CUL/TUV/CE    | 34          | 11"                       | 10.95   | 9.95   | 8.95   | 7.95   |
| 190984   | Sunon         | KD1209PTB1-6A              | 12            | 92 x 92 x 25        | 51             | Ball        | 220          | 2.6           | UL/CSA/TUV       | 34          | 12"                       | 10.95   | 9.95   | 8.95   | 7.95   |
| 207061   | AVC           | C9025S12L                  | 12            | 92 x 92 x 25        | 52             | Sleeve      | 160          | 3.8           | UL/CUL/TUV/CE    | 34          | 6" w/ conn. <sup>1</sup>  | 7.95    | 6.95   | 5.95   | 4.95   |
| 1952767  | NMB           | 3610KL-Q4W-B56PS9          | 12            | 92 x 92 x 25        | 54.7           | Ball        | 315          | 3.8           | UL/CSA/TUV/CE    | 41          | 7" w/ conn. <sup>6</sup>  | 7.95    | 6.95   | 5.95   | 4.95   |

<sup>1</sup> 3 leads; speed sensor <sup>2</sup> 3 leads; locked rotor protection <sup>3</sup> Thermistor speed control <sup>4</sup> Temperature sensor <sup>5</sup> 4 leads; wired for Dell proprietary PWM circuit control w/ tach (blue), lock rotor (yellow) & fan guard

<sup>6</sup> 5 leads; locked rotor with 2 separate ground if needed (These functions are optional, if needed) <sup>†</sup> Blower ⚙ Blue Part No. = Limited Quantity Available

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# DC Brushless Tubeaxial Fans & Blowers



644893



2082097

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## DC Brushless Tubeaxial Fans & Blowers (Continued)

\* 12V Web Code: LBZ



\* 24V Web Code: QEF



1537467



1951051

### mm to Inches Conversion Chart

| mm     | 6.8  | 10   | 15   | 20   | 25   | 28   | 30   | 32   | 35   | 38   | 40   | 45   | 51   | 60   | 76   | 80   | 92   | 95   | 97   | 120  | 127  | 150  | 172  |
|--------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Inches | 0.27 | 0.40 | 0.60 | 0.80 | 1.00 | 1.10 | 1.18 | 1.26 | 1.40 | 1.50 | 1.60 | 1.80 | 2.00 | 2.36 | 2.99 | 3.15 | 3.63 | 3.74 | 3.82 | 4.69 | 5.00 | 5.90 | 6.77 |

| Part No. | Manufacturer  | Mfr. Part No.             | Voltage (VDC) | Size mm (W x H x D) | Air Flow (CFM) | Bearing   | Current (mA) | Power (Watts) | Agency Approvals | Noise (dBA) | Connection (Leads)        | Pricing |        |        |        |
|----------|---------------|---------------------------|---------------|---------------------|----------------|-----------|--------------|---------------|------------------|-------------|---------------------------|---------|--------|--------|--------|
|          |               |                           |               |                     |                |           |              |               |                  |             |                           | 1       | 10     | 50     | 100    |
| 1952951  | NMB           | 3610KL-04W-B56PS6         | 12            | 92 x 92 x 25        | 55             | Ball      | 315          | 3.8           | UL/CSA/TUV/CE    | 41          | 9" w/ conn. <sup>2</sup>  | \$7.95  | \$6.95 | \$5.95 | \$4.95 |
| 102963   | Nidec         | TA350DC-M33503-55         | 12            | 92 x 92 x 25        | 56             | Ball      | 400          | 4.8           | UL/CSA           | 45          | 8"                        | 7.95    | 6.95   | 5.95   | 4.95   |
| 1776281  | Delta         | AFB0912HH                 | 12            | 92 x 92 x 25        | 57.9           | Ball      | 250          | 3.0           | UL/CSA/VDE/CE    | 38          | 12"                       | 9.95    | 8.95   | 7.95   | 6.95   |
| 1951481  | Delta/Dell    | AFC0912DE-U4218           | 12            | 92 x 92 x 38        | 160            | Dual Ball | 2500         | 30            | UL/CSA/TUV/CE    | 63          | 10" w/ conn. <sup>5</sup> | 12.95   | 11.49  | 9.95   | 8.95   |
| 644893   | Evercool      | EC9733M12S-B <sup>†</sup> | 12            | 97 x 92 x 33        | 19.4           | Sleeve    | 200          | 2.4           | UL/CE/TUV        | 30          | 8" w/ conn.               | 12.95   | 11.49  | 9.95   | 8.95   |
| 2081297  | Delta         | BFB1012H <sup>†</sup>     | 12            | 97 x 94 x 33        | 25.4           | Dual Ball | 800          | 9.6           | UL/CSA/VDE/CE    | 52          | 6"                        | 12.95   | 11.49  | 9.95   | 8.95   |
| 2081641  | Delta         | BFB1012H <sup>†</sup>     | 12            | 97 x 94 x 33        | 25.4           | Dual Ball | 800          | 9.6           | UL/CSA/VDE/CE    | 52          | 11"                       | 14.95   | 13.49  | 11.95  | 10.95  |
| 207062   | Sony          | SFF22C <sup>†</sup>       | 12            | 100 x 104 x 35      | 21             | Ball      | 900          | 10.8          | UL/CSA           | 51          | 15" w/ conn. <sup>1</sup> | 11.95   | 10.95  | 9.95   | 8.95   |
| 174140   | Common Wealth | FP108MS3                  | 12            | 120 x 120 x 25      | 54             | Sleeve    | 140          | 1.7           | UL/CSA/TUV/CE    | 25          | 12"                       | 12.95   | 11.49  | 10.49  | 9.49   |
| 689231   | Sunon         | KDE1212PTS3-6A            | 12            | 120 x 120 x 25      | 67             | Sleeve    | 200          | 2.4           | UL/CUL/TUV/CE    | 35          | 12"                       | 10.95   | 9.95   | 8.95   | 7.95   |
| 227901   | Common Wealth | FP-108M-S1-B              | 12            | 120 x 120 x 25      | 80             | Ball      | 330          | 4.0           | UL/CSA/VDE/CE    | 42          | 12"                       | 14.95   | 13.49  | 11.95  | 10.95  |
| 363848   | Mechatronics  | E1225H12B                 | 12            | 120 x 120 x 25      | 82             | Ball      | 385          | 4.62          | UL/CUL/TUV       | 40          | 3.5"                      | 9.95    | 8.95   | 7.95   | 6.95   |
| 1928020  | Adda          | AD1212HB-A71GL            | 12            | 120 x 120 x 25      | 85.2           | Ball      | 370          | 4.5           | UL/CUL/TUV/CE    | 39.1        | 12"                       | 12.95   | 11.49  | 9.95   | 8.95   |
| 1952231  | Turbofan      | TA1225E12BS               | 12            | 120 x 120 x 25      | 93             | Ball      | 580          | 7.0           | UL/CSA/TUV       | 44          | 13"                       | 10.95   | 9.95   | 8.95   | 7.95   |
| 1928011  | Adda          | AD1212US-A71GL            | 12            | 120 x 120 x 25      | 98.6           | Sleeve    | 500          | 6.0           | UL/CUL/TUV/CE    | 39.1        | 2" w/ conn.               | 6.95    | 5.95   | 4.95   | 3.95   |
| 2081705  | T&T           | 1225H12B-PF1              | 12            | 120 x 120 x 25      | 119            | Ball      | 800          | 9.6           | UL/CUL/TUV/CE    | 47.5        | 21" w/ conn. <sup>1</sup> | 11.95   | 10.95  | 9.95   | 8.95   |
| 2082097  | Delta         | BFB1212VH <sup>†</sup>    | 12            | 120 x 120 x 32      | 40             | Ball      | 1250         | 15            | UL/CSA/VDE/CE    | 57          | 13"                       | 12.95   | 11.49  | 9.95   | 8.95   |
| 2082151  | Comair Rotron | MC12B3QDN                 | 12            | 120 x 120 x 32      | 102            | Ball      | 660          | 7.9           | UL/CSA/CE        | 47.8        | 12" <sup>2</sup>          | 14.95   | 13.49  | 11.95  | 10.95  |
| 868109   | Comair Rotron | MC12B7                    | 12            | 120 x 120 x 32      | 102            | Ball      | 660          | 7.9           | UL/CUL/TUV/CE    | 47.9        | 12"                       | 14.95   | 13.49  | 11.95  | 10.95  |
| 1580289  | EBM Pabst     | 4212/2                    | 12            | 120 x 120 x 38      | 97.1           | Ball      | 360          | 4.3           | UL/CSA/VDE/CE    | 45          | 12" <sup>1</sup>          | 39.95   | 37.95  | 35.95  | 33.95  |
| 1585389  | Japan Servo   | CNDC12B4C-016             | 12            | 120 x 120 x 38      | 99             | Ball      | 380          | 4.6           | UL/CSA/TUV       | 40          | 12"                       | 9.95    | 8.95   | 7.95   | 6.95   |
| 94626    | Sunon         | KD1212PMB1-6A             | 12            | 120 x 120 x 38      | 108            | Ball      | 570          | 6.8           | UL/CUL/TUV/CE    | 42          | 12"                       | 12.95   | 11.49  | 10.95  | 9.95   |
| 1954703  | Mechatronics  | F1238H12B2-FS             | 12            | 120 x 120 x 38      | 112            | Ball      | 440          | 5.3           | UL/TUV           | 41          | 10" w/ conn. <sup>2</sup> | 11.95   | 10.95  | 9.95   | 8.95   |
| 1952791  | NMB           | 4715KL-04W-B46            | 12            | 120 x 120 x 38      | 118            | Ball      | 900          | 8.4           | UL/CSA/TUV/CE    | 47          | 6" w/ conn. <sup>2</sup>  | 7.95    | 6.95   | 6.25   | 5.59   |
| 1955028  | NMB           | 4715KL-04W-B49            | 12            | 120 x 120 x 38      | 118            | Ball      | 700          | 8.4           | UL/CSA/TUV/CE    | 46          | 12" w/ conn. <sup>1</sup> | 9.95    | 8.95   | 7.95   | 6.95   |
| 2099972  | Delta         | AFB1212SHE-4F1A           | 12            | 120 x 120 x 38      | 152            | Ball      | 750          | 9.0           | UL/CSA/VDE/CE    | 55.5        | 48" w/ conn. <sup>7</sup> | 9.95    | 8.95   | 7.95   | 6.95   |
| 1537467  | Comair Rotron | QJ12B7X                   | 12            | 172 x 150 x 51      | 235            | Ball      | 2260         | 25.2          | UL/CSA/TUV/CE    | 54.3        | 12" <sup>2</sup>          | 22.95   | 19.95  | 17.95  | 15.95  |
| 1928281  | Adda          | AD0424HB-G70              | 24            | 40 x 40 x 10        | 6.7            | Ball      | 90           | 2.16          | UL/CUL/TUV/CE    | 25          | 7" w/ conn.               | 11.95   | 10.95  | 9.95   | 8.95   |
| 1951473  | Delta         | AFB0424MD                 | 24            | 40 x 40 x 20        | 7.0            | Ball      | 60           | 1.44          | UL/CSA/TUV/CE    | 30          | 2" w/ conn.               | 7.95    | 6.95   | 6.25   | 5.59   |
| 100910   | Sunon         | KDE2404PKV2               | 24            | 40 x 40 x 20        | 7.7            | Vapo      | 33           | 0.8           | UL/CUL/TUV       | 21          | 12"                       | 9.95    | 8.95   | 7.95   | 6.95   |
| 2100398  | Adda          | AD0424MB-C50LF            | 24            | 40 x 40 x 20        | 8.5            | Ball      | 70           | 1.68          | UL/CUL/TUV/CE    | 28.5        | 12"                       | 9.95    | 8.95   | 7.95   | 6.95   |
| 1951502  | Adda          | AD0424HB-C56              | 24            | 40 x 40 x 20        | 10.1           | Ball      | 90           | 2.16          | UL/CUL/TUV/CE    | 31.9        | 12" <sup>1</sup>          | 10.95   | 9.95   | 8.95   | 7.95   |
| 1708422  | Sunon         | KDE2406PHS3               | 24            | 60 x 60 x 15        | 15             | Sleeve    | 50           | 1.2           | UL/CUL/TUV/CE    | 31          | 12"                       | 7.95    | 6.95   | 6.25   | 5.59   |
| 687818   | Sunon         | KDE2406PHB2               | 24            | 60 x 60 x 15        | 18             | Ball      | 56           | 1.3           | UL/CUL/TUV/CE    | 31          | 11"                       | 10.95   | 9.95   | 8.95   | 7.95   |
| 212652   | Delta/Fonsan  | DFD0624H                  | 24            | 60 x 60 x 20        | 17.7           | Ball      | 100          | 2.4           | UL/CE/CSA/TUV    | 30          | 12"                       | 6.95    | 6.25   | 5.59   | 4.95   |
| 140661   | NMB           | 2408NL-05W-B60            | 24            | 60 x 60 x 20        | 18.4           | Ball      | 100          | 2.4           | UL/CSA/TUV/CE    | 31          | 2" w/ conn.               | 5.95    | 4.95   | 4.49   | 3.95   |
| 1951191  | Sunon         | KDE2406PKV2MS.AGN         | 24            | 60 x 60 x 20        | 18.5           | Vapo      | 90           | 1.1           | UL/CE            | 27.5        | 11"                       | 7.95    | 6.95   | 6.25   | 5.59   |
| 1954922  | NMB           | 2410ML-05W-B10            | 24            | 60 x 60 x 25        | 14             | Ball      | 60           | 1.44          | UL/CSA/TUV/CE    | 23          | 13"                       | 7.95    | 6.95   | 5.59   | 4.95   |
| 189861   | Jamicon       | JF0625B2M                 | 24            | 60 x 60 x 25        | 18             | Ball      | 130          | 3.1           | UL/CSA/TUV/CE    | 28.5        | 10"                       | 8.95    | 7.95   | 6.95   | 6.25   |
| 1952177  | Japan Servo   | TUDC24Z4P-029             | 24            | 60 x 60 x 25        | 19             | Ball      | 80           | 1.8           | UL/CSA/TUV       | 32          | 12" <sup>2</sup>          | 7.95    | 6.95   | 6.25   | 5.59   |
| 212628   | Adda          | AD0624HS-A70GL            | 24            | 60 x 60 x 25        | 23.2           | Sleeve    | 150          | 3.6           | UL/CSA/TUV/CE    | 32.3        | 17" w/ conn.              | 6.95    | 6.25   | 5.59   | 4.95   |
| 1928337  | Adda          | AD624HX-A70GL             | 24            | 60 x 60 x 25        | 23.2           | Hypro     | 150          | 3.6           | UL/CSA/TUV/CE    | 32.3        | 12"                       | 7.95    | 6.95   | 6.25   | 5.59   |
| 2081799  | Nidec         | TA225DC-M33516-16         | 24            | 60 x 60 x 25        | 25             | Ball      | 180          | 4.3           | UL/CSA           | 37          | 12"                       | 7.95    | 6.95   | 6.25   | 5.59   |
| 1928071  | Adda          | AD0624HB-A70GL            | 24            | 60 x 60 x 25        | 25             | Ball      | 150          | 3.6           | UL/CSA/TUV/CE    | 33.9        | 12"                       | 8.95    | 7.95   | 6.95   | 6.25   |
| 1809848  | Sunon         | PMD2406PTB1-A             | 24            | 60 x 60 x 25        | 35.8           | Ball      | 220          | 5.3           | UL/CUL/TUV/CE    | 48.8        | 12"                       | 9.95    | 8.95   | 7.95   | 6.95   |
| 1928345  | Adda          | AD0824HX-D71L             | 24            | 80 x 80 x 15        | 29             | Hypro     | 130          | 3.12          | UL/CUL/TUV/CE    | 33.5        | 12"                       | 9.95    | 8.95   | 7.95   | 6.95   |
| 1809864  | Sunon         | PMD2408PMB1-A             | 24            | 80 x 80 x 25        | 24             | Ball      | 400          | 9.6           | UL/CUL/TUV       | 55.2        | 12"                       | 7.95    | 6.95   | 6.25   | 5.59   |
| 290029   | Jamicon       | JF0825B2M                 | 24            | 80 x 80 x 25        | 31.7           | Ball      | 130          | 3.1           | UL/CUL/TUV/CE    | 29.3        | 10"                       | 9.95    | 8.95   | 7.95   | 6.95   |
| 136161   | Jamicon       | JF0825B2H                 | 24            | 80 x 80 x 25        | 39.2           | Ball      | 150          | 3.6           | UL/CSA/TUV       | 31          | 12"                       | 9.95    | 8.95   | 7.95   | 6.95   |
| 1809952  | Sunon         | KDE2408PTB1-6A            | 24            | 80 x 80 x 25        | 42.5           | Ball      | 110          | 2.6           | UL/CUL/TUV/CE    | 36.5        | 12"                       | 9.95    | 8.95   | 7.95   | 6.95   |
| 1928388  | Adda          | AD0824UB-A72GL            | 24            | 80 x 80 x 25        | 50             | Ball      | 260          | 6.24          | UL/CUL/CE        | 41          | 12" <sup>2</sup>          | 8.95    | 7.95   | 6.95   | 6.25   |
| 1580422  | EBM Pabst     | 8314/12                   | 24            | 80 x 80 x 32        | 31.8           | Ball      | 245          | 2.5           | UL/CUL/CSA/VDE   | 36          | 11" w/ conn. <sup>1</sup> | 12.95   | 11.49  | 9.95   | 8.95   |
| 206965   | Sunon         | PMD2408PMB2-A             | 24            | 80 x 80 x 38        | 74.5           | Ball      | 300          | 7.2           | UL/CUL/CSA/VDE   | 52          | 12"                       | 19.95   | 17.95  | 15.95  | 14.49  |
| 1951051  | Mechatronics  | E9225L24B1-FS             | 24            | 92 x 92 x 25        | 35             | Ball      | 85           | 2.04          | UL/CUL           | 27          | 12" <sup>1</sup>          | 9.95    | 8.95   | 7.95   | 6.95   |
| 1708502  | Sunon         | KDE2409PTS3-6             | 24            | 92 x 92 x 25        | 39             | Sleeve    | 112          | 2.7           | UL/CUL/TUV/CE    | 27          | 12"                       | 8.95    | 7.95   | 6.95   | 6.25   |
| 1928329  | Adda          | AD0924HX-A70GL            | 24            | 92 x 92 x 25        | 50             | Hypro     | 150          | 3.6           | UL/CUL/TUV/CE    | 33.7        | 12"                       | 9.95    | 8.95   | 7.95   | 6.95   |
| 695042   | Sunon         | KD2409PTB1-13AGN          | 24            | 92 x 92 x 25        | 51             | Ball      | 140          | 3.4           | UL/CE/TUV        | 37          | 12"                       | 10.95   | 9.95   | 8.95   | 7.95   |

<sup>1</sup> 3 leads; speed sensor   <sup>2</sup> 3 leads; locked rotor protection   <sup>5</sup> 4 leads; wired for Dell proprietary PWM circuit control w/ tach (blue), lock rotor (yellow) & fan guard

<sup>7</sup> 4 leads; all black tach/speed w/ connector   (These functions are optional, if needed)   <sup>†</sup> Blower

Fans continued on next page

RoHS compliant product   + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.   Details on page 197.

# DC Brushless Tubeaxial Fans, Blowers, Power Cords, Guards & Filters

Call for additional OEM PRICING – we carry major manufacturers.

## DC Brushless Tubeaxial Fans & Blowers (Continued)



153411



212661

\* 24V Web Code: QEF



\* 48V Web Code: MAJ



1952960



1952775

| Part No. | Manufacturer  | Mfr. Part No.       | Voltage (VDC) | Size mm (W x H x D) | Air Flow (CFM) | Bearing   | Current (mA) | Power (Watts) | Agency Approvals | Noise (dBA) | Connection (Leads)        | Pricing |        |        |        |
|----------|---------------|---------------------|---------------|---------------------|----------------|-----------|--------------|---------------|------------------|-------------|---------------------------|---------|--------|--------|--------|
|          |               |                     |               |                     |                |           |              |               |                  |             |                           | 1       | 10     | 50     | 100    |
| 1928302  | Adda          | AD0924US-A71GL      | 24            | 92 x 92 x 25        | 57.8           | Sleeve    | 210          | 5.04          | UL/CUL/TUV/CE    | 38.6        | 12"                       | \$10.95 | \$9.95 | \$8.95 | \$7.95 |
| 104890   | EBM Pabst     | 3314/12             | 24            | 92 x 92 x 32        | 47.1           | Ball      | 140          | 3.4           | UL/CE/TUV        | 37          | 12" <sup>1</sup>          | 11.95   | 10.95  | 9.95   | 8.95   |
| 1951465  | Delta         | FFB0924VHE          | 24            | 92 x 92 x 38        | 85             | Ball      | 280          | 6.7           | UL/CSA/DE/CE     | 47          | 12"                       | 12.95   | 11.49  | 9.95   | 8.95   |
| 2115557  | Sunon         | KD2412PTB3-6A.GN    | 24            | 120 x 120 x 25      | 69             | Ball      | 120          | 2.9           | UL/CUL/TUV/CE    | 35.5        | 12"                       | 12.95   | 11.49  | 9.95   | 8.95   |
| 1809881  | Sunon         | KD2412PTB1-6A       | 24            | 120 x 120 x 25      | 90             | Ball      | 220          | 5.3           | UL/CUL/TUV/CE    | 44.5        | 12"                       | 13.95   | 12.49  | 10.95  | 9.95   |
| 1951115  | Nidec         | TA450DC-A34350-16   | 24            | 120 x 120 x 25      | 92             | Ball      | 180          | 4.32          | UL/CSA           | 40.4        | 10"                       | 11.95   | 10.95  | 9.95   | 8.95   |
| 2120129  | Sunon         | PMD2412PTB3-A(2).GN | 24            | 120 x 120 x 25      | 120            | Dual ball | 280          | 6.7           | UL/CSA/TUV       | 48          | 12"                       | 12.95   | 11.49  | 9.95   | 8.95   |
| 153411   | Sunon         | KD2412PMB2-6A       | 24            | 120 x 120 x 38      | 98             | Ball      | 230          | 5.5           | UL/CSA/TUV       | 36.5        | 12"                       | 17.95   | 15.95  | 14.49  | 12.95  |
| 694444   | Jamicon       | JF1238S2MR-R        | 24            | 120 x 120 x 38      | 101.3          | Sleeve    | 220          | 5.28          | UL/CSA/TUV/CE    | 39.1        | 9"                        | 13.95   | 12.49  | 10.95  | 9.95   |
| 694524   | Jamicon       | JF1238B2MR-R        | 24            | 120 x 120 x 38      | 101.3          | Ball      | 220          | 5.28          | UL/CSA/TUV/CE    | 39.1        | 9"                        | 15.95   | 14.49  | 12.95  | 11.49  |
| 107394   | EBM Pabst     | 4294GH              | 24            | 120 x 120 x 38      | 108            | Sleeve    | 220          | 5.3           | UL/CE/CSA/TUV    | 49          | Terminals                 | 14.95   | 13.49  | 11.95  | 10.95  |
| 694532   | Jamicon       | JF1238B2HR-R        | 24            | 120 x 120 x 38      | 118.7          | Ball      | 310          | 7.44          | UL/CSA/TUV/CE    | 43.8        | 9.5"                      | 17.95   | 15.95  | 14.49  | 12.95  |
| 1809910  | Sunon         | KD2412PMSX-6A       | 24            | 120 x 120 x 38      | 119            | Sleeve    | 300          | 7.2           | UL/CUL/TUV/CE    | 45          | 12"                       | 13.95   | 12.49  | 10.95  | 9.95   |
| 297959   | Delta         | BFB1224HE           | 24            | 125 x 126 x 34      | 27.2           | Ball      | 340          | 8.1           | UL/CE/CSA/TUV    | 50.5        | 12"                       | 14.95   | 13.49  | 11.95  | 10.95  |
| 212662   | EBM Pabst     | 6424/8-139          | 24            | 172 x 150 x 51      | 241            | Ball      | 750          | 18            | UL/CUL/TUV       | 57          | 24" <sup>6</sup>          | 19.95   | 17.95  | 15.95  | 14.49  |
| 212661   | EBM Pabst     | 6224N/8HT           | 24            | 172 Round x 51      | 241.3          | Ball      | 750          | 18            | UL/CE/CSA/VDE    | 55          | 12" <sup>6</sup>          | 19.95   | 17.95  | 15.95  | 14.49  |
| 212644   | Delta         | AFB0948L            | 48            | 92 x 92 x 25        | 37             | Ball      | 50           | 2.44          | UL/CSA/TUV/CE    | 25          | 12"                       | 14.95   | 13.49  | 11.95  | 10.95  |
| 2120137  | Sunon         | PMD4809PMB3-A(2).GN | 48            | 92 x 92 x 38        | 91.7           | Dual ball | 120          | 5.8           | UL/CSA/TUV       | 50.3        | 12"                       | 15.95   | 14.49  | 12.95  | 11.49  |
| 212653   | Delta         | BFB1248HH           | 48            | 120 x 120 x 32      | 35.3           | Ball      | 220          | 10.5          | UL/CSA/CE/VDE    | 54          | 12"                       | 14.95   | 13.49  | 11.95  | 10.95  |
| 1952960  | Comair Rotron | MC48B6QDNX          | 48            | 120 x 120 x 32      | 102            | Ball      | 180          | 8.4           | UL/CSA/TUV/CE    | 48          | 11" w/ conn. <sup>1</sup> | 15.95   | 14.49  | 12.95  | 11.49  |
| 1951457  | Delta         | EFB1248HHF          | 48            | 120 x 120 x 32      | 120            | Ball      | 140          | 6.72          | UL/CSA/TUV/CE    | 50.5        | 6" w/ conn.               | 14.95   | 13.49  | 11.95  | 10.95  |
| 1952775  | Orion         | OD1232-48HB         | 48            | 120 x 120 x 32      | 120            | Ball      | 180          | 8.6           | UL/TUV/CE        | 51          | 12" <sup>5</sup>          | 15.95   | 14.49  | 12.95  | 11.49  |
| 2120145  | Sunon         | PMD4812PMB1-A(2).GN | 48            | 120 x 120 x 38      | 190            | Dual ball | 400          | 19.2          | UL/CSA/TUV       | 54          | 12"                       | 17.95   | 15.95  | 14.95  | 12.95  |
| 1951422  | Delta         | FFB1248HE-ROO       | 48            | 120 x 120 x 38      | 190            | Ball      | 500          | 24            | UL/CSA/TUV/CE    | 59          | 12" w/ conn. <sup>2</sup> | 17.95   | 15.95  | 14.49  | 12.95  |
| 689063   | EBM Pabst     | W2G115-AG75-85      | 48            | 127 x 127 x 38      | 155            | Ball      | 310          | 15            | UL/CUL           | 52          | 10" <sup>1</sup>          | 17.95   | 15.95  | 14.49  | 12.95  |
| 1954711  | Delta         | EFB1348HHE-SV06     | 48            | 127 x 127 x 38      | 185            | Ball      | 360          | 17.28         | UL/CSA/VDE/CE    | 55.5        | 26" <sup>1</sup>          | 17.95   | 15.95  | 14.95  | 12.95  |

<sup>1</sup> 3 leads; speed sensor <sup>2</sup> 3 leads; locked rotor protection <sup>5</sup> 4 Leads wired for Dell proprietary PWM circuit control w/ tach (blue), lock rotor (yellow) & fan guard

<sup>6</sup> 5 leads; locked rotor with 2 separate ground if needed (These functions are optional, if needed) <sup>†</sup> Blower <sup>•</sup> Blue Part No. = Limited Quantity Available

## DC & AC Plug Fan Power Cords

\* Web Code: GAE

| For Fans w/ Terminal Connection |                      | Part No. | Description               | Fig. | Length | 1      | 10     | 100    | 250    |
|---------------------------------|----------------------|----------|---------------------------|------|--------|--------|--------|--------|--------|
| Pigtail Fan Cord (A)            | AC Plug Fan Cord (B) |          |                           |      |        |        |        |        |        |
|                                 |                      | 28564    | Straight pigtail fan cord | 1A   | 24"    | \$1.49 | \$1.25 | \$ .99 | \$ .89 |
|                                 |                      | 2076658  | Straight pigtail fan cord | 1A   | 36"    | 1.49   | 1.25   | .89    | .79    |
|                                 |                      | 1952548  | 45" pigtail fan cord      | 2A   | 24"    | 1.25   | 1.19   | 1.09   | .99    |
|                                 |                      | 104192   | 90" pigtail fan cord      | 3A   | 24"    | 1.25   | 1.19   | 1.09   | .99    |
|                                 |                      | 1952572  | Straight AC plug fan cord | 1B   | 72"    | 2.95   | 2.69   | 2.39   | 2.19   |
|                                 |                      | 2117245  | 45" AC plug fan cord      | 2B   | 24"    | 11.95  | 10.95  | 9.95   | 8.95   |
|                                 |                      | 1952581  | 45" AC plug fan cord      | 2B   | 72"    | 2.95   | 2.69   | 2.39   | 2.19   |

\* Green cord, thermal controlled

## Fan Guards & Aluminum Washable Filters

Guards and filters fit all fans. Please match by size dimension.

\* Web Code: UAR

Example: P/N 300557 fan (80mm) matches P/N 31924 metal guard (80mm).

| Part No. | mm  | Description                  | Fig. | 1      | 10     | 50     | 100    | Part No. | mm  | Description           | Fig. | 1      | 10     | 50     | 100    |
|----------|-----|------------------------------|------|--------|--------|--------|--------|----------|-----|-----------------------|------|--------|--------|--------|--------|
| 123502   | 40  | Metal (chrome) guard         | 1    | \$ .59 | \$ .55 | \$ .49 | \$ .45 | 1952661  | 92  | Plastic guard only    | 3    | \$ .89 | \$ .85 | \$ .75 | \$ .69 |
| 120038   | 60  | Metal (chrome) guard         | 1    | .65    | .59    | .55    | .49    | 1952679  | 120 | Plastic guard only    | 3    | .99    | .89    | .79    | .75    |
| 687666   | 60  | Metal (black anodized) guard | 2    | .85    | .79    | .75    | .69    | 1952687  | 150 | Plastic guard only    | 3    | 1.29   | 1.19   | 1.09   | .99    |
| 31924    | 80  | Metal (chrome) guard         | 1    | .69    | .65    | .59    | .55    | 1952695  | 40  | Plastic guard w/ mesh | 4    | 1.29   | 1.19   | 1.09   | .99    |
| 1928433  | 80  | Metal (black anodized) guard | 2    | .79    | .69    | .65    | .59    | 1952708  | 60  | Plastic guard w/ mesh | 4    | 1.95   | 1.79   | 1.59   | 1.39   |
| 123511   | 92  | Metal (chrome) guard         | 1    | .75    | .69    | .65    | .59    | 138562   | 80  | Plastic guard w/ mesh | 4    | 1.65   | 1.49   | 1.39   | 1.29   |
| 25735    | 120 | Metal (chrome) guard         | 1    | .79    | .75    | .69    | .65    | 229665   | 92  | Plastic guard w/ mesh | 4    | 1.95   | 1.75   | 1.49   | 1.35   |
| 695068   | 120 | Metal (black anodized) guard | 2    | 1.09   | .99    | .89    | .79    | 196817   | 120 | Plastic guard w/ mesh | 4    | 2.19   | 2.09   | 1.95   | 1.79   |
| 695076   | 127 | Metal (chrome) guard         | 1    | 1.25   | 1.09   | .99    | .89    | 1952716  | 172 | Plastic guard w/ mesh | 4    | 2.79   | 2.49   | 2.29   | 2.19   |
| 1811198  | 172 | Metal (chrome) guard         | 1    | 1.25   | 1.09   | .99    | .89    | 1952724  | 60  | Alum. washable filter | 5    | 1.95   | 1.75   | 1.59   | 1.45   |
| 1952644  | 40  | Plastic guard only           | 3    | .55    | .49    | .45    | .39    | 138580   | 80  | Alum. washable filter | 5    | 2.09   | 1.95   | 1.75   | 1.59   |
| 1952652  | 60  | Plastic guard only           | 3    | .65    | .59    | .55    | .49    | 1952732  | 92  | Alum. washable filter | 5    | 2.25   | 1.95   | 1.75   | 1.59   |
| 1952290  | 80  | Plastic guard only           | 3    | .69    | .59    | .55    | .49    | 130105   | 120 | Alum. washable filter | 5    | 2.95   | 2.75   | 2.49   | 2.25   |

Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above



Order by Phone 24/7 at 1-800-831-4242 or Online at [www.Jameco.com](http://www.Jameco.com)



212600



206309

## 115 & 220VAC Tubeaxial Fans



\*Web Code: ABJ



275793



209365

### mm to Inches Conversion Chart

| mm     | 6.8  | 10   | 15   | 20   | 25   | 28   | 30   | 32   | 35   | 38   | 40   | 45   | 51   | 60   | 76   | 80   | 92   | 95   | 97   | 120  | 127  | 150  | 172  |
|--------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Inches | 0.27 | 0.40 | 0.60 | 0.80 | 1.00 | 1.10 | 1.18 | 1.26 | 1.40 | 1.50 | 1.60 | 1.80 | 2.00 | 2.36 | 2.99 | 3.15 | 3.63 | 3.74 | 3.82 | 4.69 | 5.00 | 5.90 | 6.77 |

| Part No. | Manufacturer   | Mfr. Part No.       | Voltage (VAC) | Size mm (W x H x D) | Air Flow (CFM) | Bearing   | Current (mA) | Power (Watts) | Agency Approvals | Noise (dBA) | Connection  | Pricing |         |         |         |
|----------|----------------|---------------------|---------------|---------------------|----------------|-----------|--------------|---------------|------------------|-------------|-------------|---------|---------|---------|---------|
|          |                |                     |               |                     |                |           |              |               |                  |             |             | 1       | 10      | 50      | 100     |
| 213867   | Fulltech       | UF60D11BWH          | 115           | 60 x 60 x 30        | 10.2           | Ball      | 35           | 4             | UL/CUL/VDE/CE    | 28          | 12" leads   | \$17.95 | \$15.95 | \$14.49 | \$12.95 |
| 2100267  | Pelonis        | PM8025HA1S          | 115           | 80 x 80 x 25        | 18.8           | Sleeve    | 110          | 13.2          | UL/CUL/CE        | 26.7        | Terminals   | 12.95   | 11.49   | 9.95    | 8.95    |
| 146078   | Common Wealth  | FP108AX-S1-B (115)  | 115           | 80 x 80 x 25        | 23             | Ball      | 180          | 14            | UL/CE            | 29          | 12" leads   | 15.95   | 14.49   | 12.95   | 11.49   |
| 300557   | Fulltech       | UF80B11SWH          | 115           | 80 x 80 x 25        | 24             | Sleeve    | 140          | 14            | UL/CUL/TUV/CE    | 35          | 12" leads   | 12.95   | 11.49   | 9.95    | 8.95    |
| 300258   | Fulltech       | UF80B11BTH          | 115           | 80 x 80 x 25        | 24             | Ball      | 140          | 14            | UL/CUL/TUV/CE    | 35          | Terminals   | 13.95   | 12.49   | 10.95   | 9.95    |
| 212645   | Elina          | EP083815-LBL        | 115           | 80 x 80 x 38        | 24             | Ball      | 110          | 9             | UL/CSA/TUV/CE    | 32          | 12" leads   | 13.95   | 12.49   | 10.95   | 9.95    |
| 300582   | Fulltech       | UF80A11SWL          | 115           | 80 x 80 x 38        | 25             | Sleeve    | 110          | 12            | UL/CUL/TUV/CE    | 32          | 12" leads   | 13.95   | 12.49   | 10.95   | 9.95    |
| 300303   | Fulltech       | UF80A11BWL          | 115           | 80 x 80 x 38        | 25             | Ball      | 110          | 11            | UL/CUL/TUV/CE    | 32          | 12" leads   | 15.95   | 14.49   | 12.95   | 11.49   |
| 300330   | Fulltech       | UF80A11BTL          | 115           | 80 x 80 x 38        | 25             | Ball      | 110          | 12            | UL/CUL/TUV/CE    | 32          | Terminals   | 14.95   | 13.49   | 11.95   | 10.95   |
| 300600   | Fulltech       | UF80A11BWH          | 115           | 80 x 80 x 38        | 29             | Ball      | 120          | 12            | UL/CUL/TUV/CE    | 36          | 12" leads   | 15.95   | 14.49   | 12.95   | 11.49   |
| 1950155  | Sunon          | SF11580A-1083HSL-GN | 115           | 80 x 80 x 38        | 30             | Sleeve    | 150          | 13            | UL/CE/TUV        | 33          | 24" leads   | 13.95   | 12.49   | 10.95   | 9.95    |
| 300389   | Fulltech       | UF80A11BTH          | 115           | 80 x 80 x 38        | 30             | Ball      | 120          | 12            | UL/CUL/TUV/CE    | 36          | Terminals   | 15.95   | 14.49   | 12.95   | 11.49   |
| 75433    | Sunon          | SF11592A-1092HSL    | 115           | 92 x 92 x 25        | 36             | Sleeve    | 130          | 12            | UL/CSA/TUV/CE    | 39          | 12" leads   | 12.95   | 11.49   | 9.95    | 8.95    |
| 303467   | Sunon          | SF11592A-1092HBL    | 115           | 92 x 92 x 25        | 37             | Ball      | 110          | 12            | UL/CSA/TUV/CE    | 40          | 12" leads   | 14.95   | 13.49   | 11.95   | 10.95   |
| 75460    | Sunon          | SF11592A-1092HBT-R  | 115           | 92 x 92 x 25        | 37             | Ball      | 110          | 12            | UL/CSA/TUV/CE    | 40          | Terminals   | 16.95   | 14.95   | 13.49   | 11.95   |
| 1819376  | NMB            | 4710PS12TB30A00     | 115           | 120 x 120 x 25      | 70.6           | Ball      | 190          | 11            | UL/CSA/VDE/CE    | 38          | Terminals   | 12.95   | 11.49   | 9.95    | 8.95    |
| 1810048  | Sunon          | SP101AT-1122HBL-GN  | 115           | 120 x 120 x 25      | 78             | Ball      | 180          | 18            | UL/CUL/TUV/CE    | 46          | 12" leads   | 16.95   | 14.95   | 13.49   | 11.95   |
| 124063   | Sunon          | SP101AT-1122HBT     | 115           | 120 x 120 x 25      | 78             | Ball      | 180          | 18            | CSA/TUV/CE       | 46          | Terminals   | 16.95   | 14.95   | 13.49   | 11.95   |
| 303361   | Fulltech       | UF12A11BTL1         | 115           | 120 x 120 x 38      | 64             | Ball      | 80           | 15            | UL/CUL/TUV/CE    | 37          | Terminals   | 14.95   | 13.49   | 11.95   | 10.95   |
| 1585371  | Sunon          | SP103A-1123LBL      | 115           | 120 x 120 x 38      | 78             | Ball      | 130          | 11            | UL/CSA/TUV       | 39          | 6" w/ conn. | 11.95   | 10.95   | 9.95    | 8.95    |
| 1918796  | Jamicon        | KA1238L1B0A0-T      | 115           | 120 x 120 x 38      | 78             | Dual Ball | 200          | 12            | UL/CUL/CE        | 38          | Terminals   | 14.95   | 13.49   | 11.95   | 10.95   |
| 300792   | Fulltech       | UF12A11STL          | 115           | 120 x 120 x 38      | 81             | Sleeve    | 150          | 15            | UL/CUL/TUV/CE    | 38          | Terminals   | 14.95   | 13.49   | 11.95   | 10.95   |
| 303483   | Fulltech       | UF12A11SWL          | 115           | 120 x 120 x 38      | 82             | Sleeve    | 150          | 12            | UL/CUL/TUV/CE    | 38          | 12" leads   | 12.95   | 11.49   | 10.49   | 9.49    |
| 2100427  | Adda           | AA1281HS-ATLF       | 115           | 120 x 120 x 38      | 83             | Sleeve    | 250          | 16.3          | UL/CSA/TUV/CE    | 42.2        | Terminals   | 13.95   | 12.49   | 10.95   | 9.95    |
| 106586   | Common Wealth  | FP108-1-S1/T        | 115           | 120 x 120 x 38      | 105            | Sleeve    | 180          | 12            | UL/CSA/CE        | 47          | Terminals   | 13.95   | 12.49   | 10.95   | 9.95    |
| 303415   | Common Wealth  | FP108-1-S1-B/W      | 115           | 120 x 120 x 38      | 105            | Ball      | 200          | 17            | UL/CSA/TUV/CE    | 47          | 12" leads   | 15.95   | 14.49   | 12.95   | 11.49   |
| 16935    | Common Wealth  | FP108-1-S1-B/T      | 115           | 120 x 120 x 38      | 105            | Ball      | 200          | 17            | UL/CSA/TUV/CE    | 47          | Terminals   | 15.95   | 14.49   | 12.95   | 11.49   |
| 212600   | Fulltech       | UF12A11BWH          | 115           | 120 x 120 x 38      | 106            | Ball      | 190          | 15            | UL/CUL/TUV/CE    | 46          | 12" leads   | 15.95   | 14.49   | 12.95   | 11.49   |
| 1707163  | Sunon          | SP101A-1123HBL-GN   | 115           | 120 x 120 x 38      | 107            | Ball      | 180          | 18            | UL/CSA/TUV       | 50          | 12" leads   | 15.95   | 14.49   | 12.95   | 11.49   |
| 206309   | Adda           | AA1281UB-AT         | 115           | 120 x 120 x 38      | 107            | Ball      | 230          | 24            | UL/CUL/CE        | 48          | Terminals   | 15.95   | 14.49   | 12.95   | 11.49   |
| 275793   | Sunon          | SP101A-1123HBT      | 115           | 120 x 120 x 38      | 107            | Ball      | 180          | 18            | UL/CUL/CE        | 50          | Terminals   | 16.95   | 14.95   | 13.49   | 11.95   |
| 1918770  | Jamicon        | KA1238H1B110-T      | 115           | 120 x 120 x 38      | 110            | Dual Ball | 300          | 24            | UL/CUL/CE        | 45          | Terminals   | 12.95   | 11.49   | 9.95    | 8.95    |
| 303408   | Sunon          | SP100A-1123XBL      | 115           | 120 x 120 x 38      | 117            | Ball      | 240          | 20            | UL/CSA/TUV/CE    | 47          | 12" leads   | 17.95   | 15.95   | 14.49   | 12.95   |
| 102884   | Sunon          | SP100A-1123XBT      | 115           | 120 x 120 x 38      | 117            | Ball      | 240          | 20            | UL/CUL/TUV/CE    | 50          | Terminals   | 17.95   | 15.95   | 14.49   | 12.95   |
| 108725   | Fulltech       | UF15AC11BTH         | 115           | 172 x 150 x 38      | 211            | Ball      | 230          | 28            | UL/CUL/TUV/CE    | 58          | Terminals   | 29.95   | 27.95   | 25.95   | 23.95   |
| 2099454  | Adda           | AA1751MB-AW         | 115           | 172 x 150 x 51      | 186            | Ball      | 350          | 29.8          | UL/CUL/TUV/CE    | 50.5        | 12" leads   | 29.95   | 26.95   | 23.95   | 21.49   |
| 189684   | Fulltech       | UF15PC12BTH         | 115           | 172 x 150 x 51      | 226            | Ball      | 250          | 30            | CSA              | 58          | Terminals   | 34.95   | 32.95   | 29.95   | 26.95   |
| 212582   | Fulltech       | UF15PC11BWH         | 115           | 172 x 150 x 51      | 226            | Ball      | 250          | 30            | UL/CUL/TUV/CE    | 58          | 12" leads   | 36.95   | 34.95   | 32.95   | 29.95   |
| 1950956  | Arctic         | KEST-481BW          | 115           | 172 x 150 x 51      | 260            | Ball      | 620          | 46            | UL/CE/TUV        | 61          | 12" leads   | 34.95   | 32.95   | 29.95   | 26.95   |
| 1810128  | Common Wealth  | FP-108AX-S1-B (220) | 220           | 80 x 80 x 25        | 21             | Ball      | 120          | 13            | UL/CSA/TUV/CE    | 29          | 13" leads   | 16.95   | 14.95   | 13.49   | 11.95   |
| 2099471  | Adda           | AA8382MX-AT         | 220           | 80 x 80 x 38        | 24             | Hypro     | 50           | 6.8           | UL/CUL/TUV/CE    | 25.3        | Terminals   | 14.95   | 13.49   | 11.95   | 10.95   |
| 100918   | Sunon          | SF23080A/2083HSL    | 220           | 80 x 80 x 38        | 30             | Sleeve    | 60           | 13.5          | UL/CSA/TUV/CE    | 35          | 12" leads   | 16.95   | 14.95   | 13.49   | 11.95   |
| 355630   | Fulltech       | UF-80A23-BTH-R      | 220           | 80 x 80 x 38        | 30             | Ball      | 60           | 12            | UL/CSA/VDE/CE    | 36          | Terminals   | 16.95   | 14.95   | 13.49   | 11.95   |
| 209365   | Bi-Sonic       | 4C-230LB            | 220           | 120 x 120 x 38      | 63             | Ball      | 60           | 9             | TUV/CE           | 34          | 10" leads   | 14.95   | 13.49   | 11.95   | 10.95   |
| 302244   | Cornair Rotron | 28023               | 220           | 120 x 120 x 38      | 88             | Ball      | 130          | 28.6          | UL/CSA           | 50.7        | Terminals   | 14.95   | 13.49   | 11.95   | 10.95   |
| 1918753  | Jamicon        | KA1238H2B01         | 220           | 120 x 120 x 38      | 89             | Dual Ball | 200          | 23            | UL/CUL/TUV/CE    | 42          | Terminals   | 13.95   | 12.49   | 10.95   | 9.95    |
| 1918761  | Jamicon        | KA1238H2B12         | 220           | 120 x 120 x 38      | 110            | Ball      | 200          | 24            | UL/CUL/TUV/CE    | 45          | Terminals   | 12.95   | 11.49   | 9.95    | 8.95    |
| 1585346  | Sunon          | A2123-HBL           | 220           | 120 x 120 x 38      | 117            | Ball      | 120          | 20            | UL/CUL/TUV       | 50          | 17" leads   | 14.95   | 13.49   | 11.95   | 10.95   |
| 303459   | Sunon          | DP200A-2123XBL      | 220           | 120 x 120 x 38      | 117            | Ball      | 120          | 21            | UL/CSA/TUV/CE    | 50          | 12" leads   | 15.95   | 14.49   | 12.95   | 11.49   |
| 1585338  | Sunon          | A2123-HBT           | 220           | 120 x 120 x 38      | 117            | Ball      | 120          | 20            | UL/CUL/TUV       | 50          | Terminals   | 14.95   | 13.49   | 11.95   | 10.95   |
| 102892   | Sunon          | DP200A-2123XBT      | 220           | 120 x 120 x 38      | 117            | Ball      | 120          | 21            | UL/CSA/TUV/CE    | 50          | Terminals   | 17.95   | 15.95   | 14.49   | 12.95   |
| 1809872  | Sunon          | A2175-HBT           | 220           | 172 x 150 x 51      | 239            | Ball      | 110          | 25            | UL/TUV/CE        | 51          | Terminals   | 29.95   | 26.95   | 23.95   | 19.95   |
| 1950964  | Arctic         | KEST-482BW          | 220           | 172 x 150 x 51      | 256            | Ball      | 400          | 58            | UL/TUV/CE        | 58          | 12" leads   | 32.95   | 29.95   | 26.95   | 23.95   |

Blue Part No. = Limited Quantity Available

RoHS compliant product

+ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 197.



# AC-to-AC & AC-to-DC Regulated Switching Wall Adapters



## AC-to-AC Wall Adapters

Input: 120VAC @ 60Hz



\*Web Code: ABQ

We specialize in Wall Adapters – Call for additional OEM PRICING.

We are happy to change any listed DC wall adapter power plug to a connector of your choice (see pg 130) for just \$2.50 each. A 100 pc. minimum order applies.

| Part No. | Manufacturer | Product No.      | Output Rating    |                 | Output Connector<br>ID x OD mm<br>Female/Male | Size<br>(H" x W" x D") | Case Color | Output<br>Cord Length | Wt.<br>(lbs.) | Agency Approvals | Pricing |        |        |        |
|----------|--------------|------------------|------------------|-----------------|---|------------------------|------------|-----------------------|---------------|------------------|---------|--------|--------|--------|
|          |              |                  | Voltage<br>(VAC) | Current<br>(mA) |   |                        |            |                       |               |                  | 1       | 10     | 50     | 100    |
| 2082521  | Atlinks      | 5-2634           | 5                | 400             | 2.1mm x 5.5mm right angle F                   | 2.0 x 1.4 x 1.3        | White      | 6'                    | 0.4           | UL/CSA           | \$3.95  | \$3.59 | \$3.25 | \$2.95 |
| 2082530  | Atlinks      | 5-2633           | 5                | 400             | 2.1mm x 5.5mm right angle F                   | 2.0 x 1.4 x 1.3        | Black      | 6'                    | 0.4           | UL/CSA           | 4.95    | 4.49   | 3.95   | 3.59   |
| 249017   | ReliaPro     | ACU070150        | 7                | 1500            | 2.5mm x 5.5mm F                               | 2.5 x 2.0 x 1.7        | Black      | 6'                    | 0.5           | UL/CSA           | 9.95    | 8.95   | 7.95   | 7.29   |
| 100061   | ReliaPro     | ACU090050        | 9                | 500             | 2.1mm x 5.5mm F                               | 2.7 x 1.9 x 1.7        | Black      | 6'                    | 0.6           | UL/CUL           | 7.95    | 7.29   | 6.59   | 5.95   |
| 1950921  | ITI          | AM-9700ALF       | 9                | 700             | Screw terminals                               | 2.8 x 2.1 x 1.7        | White      | —                     | 0.6           | UL               | 4.95    | 4.49   | 3.95   | 3.59   |
| 236814   | ReliaPro     | ACU090080        | 9                | 800             | 3.5mm M                                       | 2.5 x 2.0 x 1.7        | Black      | 6'                    | 0.5           | UL/CUL           | 7.95    | 6.95   | 6.25   | 5.59   |
| 1581281  | OEM          | AA-091A          | 9                | 1000            | 2.1mm x 5.5mm F                               | 2.2 x 2.1 x 1.6        | Black      | 6'                    | 0.6           | UL/CSA           | 6.95    | 6.25   | 5.59   | 4.95   |
| 102234   | ReliaPro     | ACU090100Z8182   | 9                | 1000            | 2.1mm x 5.5mm F                               | 3.2 x 2.2 x 1.9        | Black      | 6'                    | 0.6           | UL/CSA           | 8.95    | 7.95   | 7.29   | 6.49   |
| 1586154  | Arndt        | AA091A           | 9                | 1000            | 2.1mm x 5.5mm F                               | 2.2 x 2.1 x 1.6        | Black      | 6'                    | 0.6           | UL/CSA           | 7.95    | 6.95   | 6.25   | 5.59   |
| 157041   | ReliaPro     | ACU090100E8942   | 9                | 1000            | 2.5mm x 5.5mm F                               | 2.1 x 2.1 x 1.6        | Black      | 6'                    | 0.6           | UL/CSA           | 8.95    | 7.95   | 7.29   | 6.49   |
| 112336   | ReliaPro     | ACU090150        | 9                | 1500            | 2.5mm x 5.5mm F                               | 2.5 x 2.2 x 2.0        | Black      | 6'                    | 0.9           | UL               | 10.95   | 9.95   | 8.95   | 7.95   |
| 688634   | Arndt        | PP-1012-A        | 10               | 1200            | 2.5mm x 5.5mm F                               | 3.5 x 2.5 x 1.9        | Black      | 6'                    | 1.3           | UL               | 7.95    | 6.95   | 6.25   | 5.59   |
| 2076543  | Radio Shack  | 15-1963          | 12               | 400             | 2.1mm x 5.5mm F                               | 2.6 x 1.7 x 1.6        | Black      | 6'                    | 0.6           | UL/CSA           | 5.95    | 5.35   | 4.79   | 4.29   |
| 101258   | ReliaPro     | ACU120050        | 12               | 500             | 2.1mm x 5.5mm F                               | 2.5 x 2.0 x 1.7        | Black      | 6'                    | 0.6           | UL/CSA           | 6.95    | 6.25   | 5.59   | 4.95   |
| 2076666  | CIC          | 48A12-500Q       | 12               | 500             | 2.5mm x 5.5mm right angle F                   | 3.3 x 2.6 x 2.0        | Black      | 6'                    | 1.0           | CSA              | 4.95    | 4.49   | 3.95   | 3.59   |
| 10081    | ReliaPro     | ACU120100J0920   | 12               | 1000            | 2.1mm x 5.5mm F                               | 2.6 x 2.4 x 2.0        | Black      | 6'                    | 0.7           | UL/CSA           | 9.95    | 8.95   | 7.95   | 7.29   |
| 100167   | ReliaPro     | A41120100U       | 12               | 1000            | 2.5mm x 5.5mm F                               | 3.2 x 2.4 x 2.0        | Black      | 6'                    | 0.7           | UL/CSA           | 9.95    | 8.95   | 7.95   | 7.29   |
| 10428    | ReliaPro     | ACU120100Z9121   | 12               | 1000            | 3.5mm M                                       | 2.6 x 2.4 x 2.0        | Black      | 6'                    | 0.6           | UL/CUL           | 9.95    | 8.95   | 7.95   | 7.29   |
| 167151   | ReliaPro     | ADU120150        | 12               | 1500            | 2.1mm x 5.5mm F                               | 3.4 x 2.7 x 2.2        | Black      | 6'                    | 1.5           | UL/CUL           | 10.95   | 9.95   | 8.95   | 7.95   |
| 307838   | ReliaPro     | ADU120160H4120   | 12               | 1600            | 2.5mm x 5.5mm F                               | 2.9 x 2.3 x 1.9        | Black      | 6'                    | 1.0           | UL/CUL           | 11.95   | 10.95  | 9.95   | 8.95   |
| 153761   | ReliaPro     | ADU120160C2521   | 12               | 1600            | 3.5mm M                                       | 2.5 x 2.2 x 1.9        | Black      | 6'                    | 0.9           | UL               | 10.95   | 9.95   | 8.95   | 7.95   |
| 206404   | Arndt        | MGT1220          | 12               | 1670            | Screw terminals with green LED                | 3.2 x 2.2 x 1.9        | White      | —                     | 0.9           | UL/CSA           | 9.95    | 8.95   | 7.95   | 7.29   |
| 2082564  | ReliaPro     | GPU1355000       | 13.5             | 5000            | 2.1mm x 5.5mm F (Table-Top style)             | 4.7 x 3.2 x 2.5        | Black      | 6'                    | 2.4           | —                | 22.95   | 20.49  | 18.95  | 16.95  |
| 171408   | ReliaPro     | ACU140050        | 14               | 500             | 2.1mm x 5.5mm F                               | 2.8 x 2.0 x 1.6        | Black      | 6'                    | 0.6           | UL/CSA           | 9.95    | 8.95   | 7.95   | 6.95   |
| 318684   | Horizon      | ACU140085        | 14               | 850             | 2.5mm x 5.5mm right angle F                   | 2.5 x 2.0 x 1.7        | Black      | 6'                    | 0.6           | UL/CUL           | 12.95   | 11.49  | 9.95   | 8.95   |
| 100108   | ReliaPro     | ADU160100        | 16               | 1000            | 2.1mm x 5.5mm F                               | 2.5 x 2.1 x 1.9        | Black      | 6'                    | 0.9           | UL/CSA           | 10.95   | 9.95   | 8.95   | 7.95   |
| 163053   | ReliaPro     | ADU160110        | 16               | 1100            | 2.5mm x 5.5mm F                               | 3.2 x 2.3 x 1.8        | Black      | 6'                    | 1.1           | UL/CSA           | 10.95   | 9.95   | 8.95   | 7.95   |
| 176604   | ReliaPro     | BHU160400        | 16               | 4000            | 2.1mm x 5.5mm F (Table-Top style)             | 4.4 x 3.1 x 2.5        | Black      | 6'/6'                 | 2.8           | —                | 19.95   | 17.95  | 15.95  | 13.95  |
| 2082142  | Ault         | 308-2018         | 18               | 900             | Screw terminals                               | 1.88 x 2.18 x 1.95     | Beige      | —                     | 0.7           | UL               | 9.95    | 8.95   | 7.95   | 6.95   |
| 121216   | ReliaPro     | ADU180100        | 18               | 1000            | 2.1mm x 5.5mm F                               | 3.1 x 2.7 x 1.9        | Black      | 6'                    | 1.1           | UL/CUL           | 10.95   | 9.95   | 8.95   | 7.95   |
| 185439   | ReliaPro     | AFU180185        | 18               | 1850            | 2.1mm x 5.5mm right angle F                   | 3.3 x 2.7 x 2.2        | Black      | 6'                    | 1.7           | —                | 11.95   | 10.95  | 9.95   | 8.95   |
| 2076631  | Ault         | T57-182200       | 18               | 2200            | 2.1mm x 5.5mm F                               | 3.2 x 2.6 x 2.2        | Black      | 5'6"                  | 1.2           | UL/CSA           | 11.95   | 10.95  | 9.95   | 8.95   |
| 87581    | ReliaPro     | ADU240050        | 24               | 500             | 2.1mm x 5.5mm F                               | 2.5 x 2.2 x 1.9        | Black      | 6'                    | 0.9           | UL/CSA           | 8.95    | 7.95   | 7.29   | 6.49   |
| 206439   | Arndt        | MGT2420          | 24               | 830             | Screw terminals with green LED                | 3.2 x 2.2 x 1.9        | White      | —                     | 0.9           | UL/CSA           | 10.95   | 9.95   | 8.95   | 7.95   |
| 140599   | ReliaPro     | ADU240100D5531   | 24               | 1000            | 2.1mm x 5.5mm F                               | 3.0 x 2.2 x 1.9        | Black      | 6'                    | 1.2           | UL/CSA           | 10.95   | 9.95   | 8.95   | 7.95   |
| 10102    | ReliaPro     | ADU240100E0461   | 24               | 1000            | 3.5mm M                                       | 3.0 x 2.2 x 1.9        | Black      | 6'                    | 1.2           | UL/CSA           | 10.95   | 9.95   | 8.95   | 7.95   |
| 2100195  | ReliaPro     | GPU572401500WA00 | 24               | 1500            | 2.1mm x 5.5mm F                               | 3.3 x 2.6 x 2.3        | Black      | 6'                    | 1.7           | UL/CUL           | 14.95   | 13.49  | 11.95  | 10.95  |



## AC-to-DC "Slim Line" Regulated Switching Wall Adapters

Output connector: 2.1mm x 5.5mm F2 (center positive)

Compact in size and lightweight, they are the perfect power solution in all those applications where space is critical. And their high efficiency satisfies requirements for minimizing power losses. You no longer have to deal with traditional wall adapters that block unused outlets in wall plates and power strips/surge protectors.

- 2-wire AC input
- Output cord length: 6'
- Input voltage: 100 – 240VAC @ 47-63Hz
- Color: black
- One-year warranty



\*Web Code: CBQ



We'll Brand the Adapters  
With Your Company Name  
Call 1-800-831-4242 for Details



CEC Equivalents Available Below

| Choose from 2 Models! |              | Output Rating |            | Size<br>(H"xW"xD") | Wt.<br>(lbs.) | Pricing |         |        |        |
|-----------------------|--------------|---------------|------------|--------------------|---------------|---------|---------|--------|--------|
| Non-CEC P/N           | CEC Part No. | Volt (VDC)    | Curr. (mA) |                    |               | 1       | 10      | 50     | 100    |
| —                     | 251565       | 3.3           | 1500       | 2.5x1.1x1.7        | 0.2           | \$11.95 | \$10.95 | \$9.49 | \$8.49 |
| —                     | 251600       | 3.3           | 2500       | 2.9x1.1x1.7        | 0.3           | 12.95   | 11.49   | 9.95   | 8.95   |
| 252701                | —            | 5             | 500        | 2.9x1.1x1.7        | 0.3           | 10.95   | 9.95    | 8.95   | 7.95   |
| —                     | 252720       | 5             | 1000       | 2.5x1.1x1.7        | 0.2           | 12.95   | 11.49   | 9.95   | 8.95   |
| 252727                | 252728       | 5             | 1500       | 2.5x1.1x1.7        | 0.2           | 13.95   | 12.49   | 10.95  | 9.95   |
| —                     | 252736       | 5             | 2500       | 2.9x1.3x2.2        | 0.3           | 14.95   | 13.49   | 11.95  | 10.49  |
| 2082222               | —            | 5             | 3000       | 2.9x1.3x2.2        | 0.3           | 14.95   | 12.95   | 10.95  | 8.95   |
| —                     | 252753       | 9             | 500        | 2.5x1.1x1.7        | 0.2           | 11.95   | 10.95   | 9.95   | 8.95   |
| —                     | 1950841      | 9             | 1000       | 2.5x1.1x1.7        | 0.2           | 13.95   | 12.49   | 10.95  | 9.95   |
| —                     | 252779       | 9             | 1200       | 2.9x1.3x2.2        | 0.3           | 13.95   | 12.49   | 10.95  | 9.95   |
| 252786                | —            | 9             | 1500       | 2.9x1.3x2.2        | 0.3           | 15.95   | 14.49   | 12.95  | 11.49  |

| Choose from 2 Models! |              | Output Rating |            | Size<br>(H"xW"xD") | Wt.<br>(lbs.) | Pricing |        |        |        |
|-----------------------|--------------|---------------|------------|--------------------|---------------|---------|--------|--------|--------|
| Non-CEC P/N           | CEC Part No. | Volt (VDC)    | Curr. (mA) |                    |               | 1       | 10     | 50     | 100    |
| 252794                | 252795       | 12            | 250        | 2.5x1.1x1.7        | 0.2           | \$8.95  | \$7.95 | \$6.95 | \$6.25 |
| —                     | 252808       | 12            | 500        | 2.5x1.1x1.7        | 0.2           | 10.95   | 9.95   | 8.95   | 7.95   |
| —                     | 252816       | 12            | 600        | 2.5x1.1x1.7        | 0.2           | 9.95    | 8.95   | 7.95   | 6.95   |
| —                     | 252824       | 12            | 1000       | 2.9x1.3x2.2        | 0.3           | 12.95   | 11.49  | 9.95   | 8.95   |
| —                     | 252833       | 12            | 1250       | 2.9x1.3x2.2        | 0.3           | 13.95   | 12.49  | 10.95  | 9.95   |
| 254757                | —            | 15            | 800        | 2.9x1.3x2.2        | 0.2           | 12.95   | 11.49  | 10.49  | 9.49   |
| —                     | 252904       | 15            | 1000       | 2.9x1.3x2.2        | 0.3           | 13.95   | 12.49  | 10.95  | 9.95   |
| 252858                | —            | 24            | 250        | 2.5x1.1x1.7        | 0.2           | 9.95    | 8.95   | 7.95   | 6.95   |
| 252866                | —            | 24            | 500        | 2.9x1.3x2.2        | 0.3           | 11.95   | 10.95  | 9.95   | 8.95   |
| —                     | 2076341      | 24            | 630        | 2.9x1.3x2.2        | 0.3           | 12.95   | 11.49  | 10.49  | 9.49   |

✓ CEC equivalent available CEC Blue Part No. – Limited Quantity Available

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# AC-to-DC Regulated Switching Wall Adapters

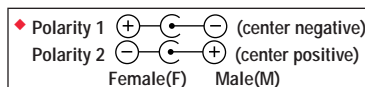
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## AC-to-DC Regulated Switching Wall Adapters

★ Web Code: CDZ



Female Straight

We specialize in Wall Adapters – Call for additional OEM PRICING.  
We are happy to change any listed DC wall adapter power plug to a connector of your choice (see pg 130) for just \$2.50 each.  
A 100 pc. minimum order applies.



Female Right Angle



1954199



1707112

| Part No. | Manufacturer | Product No.       | Output Rating |              | Output Connector ID x OD mm   | Input VAC @ Hz | Size (H" x W" x D") | Case Color | Output Cord Length | Wt. (lbs.) | Agency Approvals | Pricing |        |        |        |
|----------|--------------|-------------------|---------------|--------------|-------------------------------|----------------|---------------------|------------|--------------------|------------|------------------|---------|--------|--------|--------|
|          |              |                   | Volt. (VDC)   | Current (mA) |                               |                |                     |            |                    |            |                  | 1       | 10     | 50     | 100    |
| 1809805  | Globtek      | WR9HA1000C9P-F(R) | 5             | 1000         | 2.1mm x 5.5mm F 2             | 100-240@50-60  | 2.1 x 1.2 x 1.6     | Black      | 6'                 | 0.2        | UL/CUL/CE        | \$10.95 | \$9.95 | \$8.95 | \$7.95 |
| 1940660  | Mean Well    | GS06U1P1J         | 5             | 1000         | 2.1mm x 5.5mm F 2             | 90-264@47-63   | 2.6 x 1.3 x 1.9     | Black      | 6'                 | 0.2        | UL/CUL/CEC       | 11.95   | 10.95  | 9.95   | 8.95   |
| 1950981  | Philips      | AY3192/17         | 5             | 2000         | 1.7mm x 4.0mm F 2             | 100-240@50-60  | 3.1 x 1.4 x 1.3     | Black      | 6'                 | 0.3        | UL/CUL           | 10.95   | 9.95   | 8.95   | 7.95   |
| 157340   | D-Link       | AF1205B           | 5             | 2000         | 2.1mm x 5.5mm right angle F 2 | 100-120@50-60  | 2.4 x 1.4 x 1.1     | Black      | 6'                 | 0.3        | UL/CUL/TUV       | 10.95   | 9.95   | 8.95   | 7.95   |
| 210894   | ReliaPro     | SYS1193-1005      | 5             | 2000         | 2.1mm x 5.5mm F 2             | 100-240@47-63  | 2.9 x 1.4 x 2.2     | Black      | 6'                 | 0.2        | UL/CUL           | 12.95   | 11.49  | 10.49  | 9.49   |
| 1940740  | Mean Well    | GS12U05P11        | 5             | 2000         | 2.1mm x 5.5mm F 2             | 90-264@47-63   | 2.6 x 1.9 x 1.0     | Black      | 4'                 | 0.3        | UL/CUL/CEC       | 12.95   | 11.49  | 10.49  | 9.49   |
| 189190   | Intertex     | EPA101MU-05B      | 5             | 2000         | 2.5mm x 5.5mm F 1             | 100-240@50-60  | 3.2 x 2.8 x 1.3     | Black      | 6'                 | 0.4        | UL/CUL           | 12.95   | 11.49  | 10.49  | 9.49   |
| 1954199  | Mean Well    | GS15U-1P1J        | 5             | 2400         | 2.1mm x 5.5mm F 2             | 90-264@47-63   | 2.8 x 1.3 x 2.0     | Black      | 6'                 | 0.4        | UL/CUL/CEC       | 14.95   | 13.49  | 11.95  | 10.95  |
| 689864   | DVE          | DSA-0151A-05      | 5             | 2400         | 2.5mm x 5.5mm right angle F 2 | 100-120@50-60  | 3.2 x 2.1 x 1.4     | Black      | 6'                 | 0.5        | UL/CUL           | 14.95   | 13.95  | 12.95  | 11.95  |
| 1919158  | Compaq       | Z81855-001        | 5             | 3000         | 1.3mm x 3.5mm F 2             | 100-240@50-60  | 3.1 x 1.4 x 2.2     | Black      | 6'                 | 0.3        | UL/CUL/TUV/CE    | 14.95   | 13.95  | 12.95  | 11.95  |
| 1952863  | Mean Well    | GS18U05-P1J       | 5             | 3000         | 2.1mm x 5.5mm F 2             | 90-264@47-63   | 3.1 x 2.1 x 1.3     | Black      | 4'                 | 0.5        | UL/CUL/CEC       | 15.95   | 14.95  | 13.95  | 12.95  |
| 379622   | Mean Well    | ES25U05-P1J       | 5             | 4000         | 2.1mm x 5.5mm F 2             | 90-264@47-63   | 3.1 x 2.1 x 1.3     | Black      | 6'                 | 0.5        | UL/CUL/CE        | 14.95   | 13.49  | 11.95  | 10.95  |
| 379623   | Mean Well    | GS25U05-P1J       | 5             | 4000         | 2.1mm x 5.5mm F 2             | 100-240@50-60  | 3.1 x 2.1 x 1.3     | Black      | 6'                 | 0.5        | UL/CUL/CEC       | 15.95   | 14.95  | 13.95  | 12.95  |
| 2082011  | Friwo        | MPA3U             | 6             | 400          | 2.1mm x 5.5mm right angle F 2 | 100-240@50-60  | 2.8 x 2.0 x 0.7     | Black      | 6'                 | 0.3        | UL/CUL           | 5.95    | 5.49   | 4.95   | 3.95   |
| 2095429  | Phihong      | PSMIR-060         | 6             | 1660         | 2.1mm x 5.5mm F 2             | 100-240@50-60  | 2.8 x 1.8 x 1.2     | Black      | 6'                 | 0.3        | UL/CUL/CE        | 14.95   | 13.49  | 11.95  | 10.95  |
| 1918702  | Globtek      | GT-41052-1506     | 6             | 2500         | 2.5mm x 5.5mm right angle F 2 | 100-240@50-60  | 2.9 x 1.7 x 1.5     | Black      | 6'                 | 0.5        | UL/CUL/CE        | 22.95   | 19.95  | 17.95  | 15.95  |
| 1940678  | Mean Well    | GS06U-11P1J       | 7.5           | 800          | 2.1mm x 5.5mm F 2             | 90-264@47-63   | 2.6 x 1.3 x 1.9     | Black      | 6'                 | 0.2        | UL/CUL/CEC       | 11.95   | 10.95  | 9.95   | 8.95   |
| 1940758  | Mean Well    | GS12U07/P11       | 7.5           | 1600         | 2.1mm x 5.5mm F 2             | 90-264@47-63   | 2.6 x 1.9 x 1.0     | Black      | 6'                 | 0.3        | UL/CUL/CEC       | 12.95   | 11.49  | 10.49  | 9.49   |
| 380008   | Mean Well    | ES25U07-P1J       | 7.5           | 2930         | 2.1mm x 5.5mm F 2             | 90-264@47-63   | 3.1 x 2.1 x 1.3     | Black      | 6'                 | 0.5        | UL/CUL/CEC       | 15.95   | 14.49  | 12.95  | 11.95  |
| 380332   | Mean Well    | ES25U07-P1M       | 7.5           | 2930         | 2.5mm x 5.5mm F 2             | 100-240@50-60  | 3.1 x 2.1 x 1.3     | Black      | 6'                 | 0.5        | UL/CUL/CE        | 15.95   | 14.49  | 12.95  | 11.95  |
| 1940686  | Mean Well    | GS06U-2P1J        | 9             | 660          | 2.1mm x 5.5mm F 2             | 90-264@47-63   | 2.6 x 1.3 x 1.9     | Black      | 6'                 | 0.2        | UL/CUL/CEC       | 11.95   | 10.95  | 9.95   | 8.95   |
| 2099850  | Ault         | HES12-090130      | 9             | 1300         | 2.1mm x 5.5mm F 2             | 100-240@50-60  | 2.4 x 1.8 x 1.3     | Black      | 6'                 | 0.3        | UL/CUL/CE        | 11.95   | 10.95  | 9.95   | 8.95   |
| 1940766  | Mean Well    | GS12U09-P1J       | 9             | 1330         | 2.1mm x 5.5mm F 2             | 90-264@47-63   | 2.6 x 1.9 x 1.0     | Black      | 6'                 | 0.3        | UL/CUL           | 12.95   | 11.49  | 10.49  | 9.49   |
| 1952847  | Mean Well    | GS18U09-P1J       | 9             | 2000         | 2.1mm x 5.5mm F 2             | 100-240@50-60  | 3.1 x 2.1 x 1.3     | Black      | 6'                 | 0.5        | UL/CUL/CEC       | 15.95   | 14.95  | 13.95  | 12.95  |
| 380140   | Mean Well    | GS25U09-P1J       | 9             | 2780         | 2.5mm x 5.5mm F 2             | 90-264@47-63   | 3.1 x 2.1 x 1.3     | Black      | 6'                 | 0.5        | UL/CUL/CEC       | 17.95   | 15.95  | 14.49  | 12.95  |
| 1940694  | Mean Well    | GS06U-3P1J        | 12            | 500          | 2.1mm x 5.5mm F 2             | 90-264@47-63   | 2.6 x 1.3 x 1.9     | Black      | 6'                 | 0.2        | UL/CUL/CE        | 11.95   | 10.95  | 9.95   | 8.95   |
| 1955036  | Arndt        | 26092*            | 12            | 700          | 2.1mm x 5.5mm F 2             | 95-240@47-63   | 4.0 x 2.3 x 1.1     | Black      | 5.5'               | 0.4        | UL/CUL           | 10.95   | 9.95   | 8.95   | 6.95   |
| 1940774  | Mean Well    | GS12U12-P11       | 12            | 1000         | 2.1mm x 5.5mm F 2             | 90-264@47-63   | 2.6 x 1.9 x 1.0     | Black      | 6'                 | 0.3        | UL/CUL/CEC       | 12.95   | 11.49  | 10.49  | 9.49   |
| 159354   | Group West   | TRC-12-1200       | 12            | 1200         | 2.1mm x 5.5mm F 2             | 100-240@50-60  | 3.0 x 1.9 x 1.0     | Black      | 6'                 | 0.2        | UL/CUL/CE        | 10.95   | 9.95   | 8.95   | 7.95   |
| 1954623  | Dee Van      | DSA-0151A-12      | 12            | 1250         | 2.1mm x 5.5mm F 2             | 100-120@50-60  | 3.1 x 2.1 x 1.4     | Black      | 6'                 | 0.5        | UL/CUL           | 11.95   | 10.95  | 9.95   | 8.95   |
| 1954201  | Mean Well    | GS15U-3P1J        | 12            | 1250         | 2.1mm x 5.5mm F 2             | 90-264@47-63   | 2.8 x 1.3 x 2.0     | Black      | 6'                 | 0.4        | UL/CUL/CE        | 15.95   | 14.49  | 12.95  | 11.49  |
| 2082062  | Ktec         | KSAD1200          | 12            | 1500         | 2.1mm x 5.5mm F 2             | 100-240@50-60  | 3.2 x 1.7 x 1.3     | Black      | 4'                 | 0.3        | UL/CUL           | 12.95   | 11.49  | 9.95   | 8.95   |
| 2082054  | APD          | WA-18G12U         | 12            | 1500         | 2.1mm x 5.5mm F 2             | 100-240@50-60  | 3.0 x 1.9 x 1.5     | Black      | 6'                 | 0.4        | UL/CUL/TUV       | 12.95   | 11.49  | 9.95   | 8.95   |
| 1952855  | Mean Well    | GS18U12-P1J       | 12            | 1500         | 2.1mm x 5.5mm F 2             | 90-264@47-63   | 3.1 x 2.1 x 1.3     | Black      | 6'                 | 0.2        | UL/CUL/CE/CEC    | 15.95   | 14.95  | 13.95  | 12.95  |
| 2099892  | DVE          | DSA-0151F-12      | 12            | 1500         | 2.5mm x 5.5mm F 2             | 100-240@50-60  | 3.1 x 2.1 x 1.6     | Black      | 6'                 | 0.4        | UL/CUL/CE        | 13.95   | 12.49  | 11.49  | 10.95  |
| 1950497  | ReliaPro     | SYS1308-2412      | 12            | 2000         | 2.1mm x 5.5mm F 2             | 100-240@50-60  | 2.9 x 1.3 x 1.7     | Black      | 6'                 | 0.4        | UL/CUL/CE        | 15.95   | 14.49  | 12.95  | 11.49  |
| 2082134  | ReliaPro     | ST-122A           | 12            | 2000         | Screw terminals               | 100-240@50-60  | 3.8 x 2.1 x 1.6     | Black      | —                  | 0.4        | UL/CUL/CEC       | 16.95   | 15.49  | 13.95  | 12.95  |
| 380156   | Mean Well    | GS25U12-P1J       | 12            | 2080         | 2.1mm x 5.5mm F 2             | 90-264@47-63   | 3.1 x 2.1 x 1.3     | Black      | 6'                 | 0.5        | UL/CUL/CE/CEC    | 16.49   | 14.95  | 13.49  | 12.49  |
| 380358   | Mean Well    | ES25U12-P1M-R     | 12            | 2080         | 2.5mm x 5.5mm F 2             | 90-264@47-63   | 3.1 x 2.1 x 1.3     | Black      | 6'                 | 0.3        | UL/CUL/CE        | 17.49   | 15.95  | 14.49  | 13.49  |
| 1940707  | Mean Well    | GS06U-4P1J        | 15            | 400          | 2.1mm x 5.5mm F 2             | 90-264@47-63   | 2.6 x 1.3 x 1.9     | Black      | 6'                 | 0.2        | UL/CUL/CEC       | 11.95   | 10.95  | 9.95   | 8.95   |
| 1707112  | Mean Well    | SW12U15-P11       | 15            | 800          | 2.1mm x 5.5mm F 2             | 100-240@50-60  | 2.6 x 2.0 x 1.0     | Black      | 6'                 | 0.5        | UL/CUL/CE        | 11.95   | 10.49  | 9.49   | 8.49   |
| 1940782  | Mean Well    | GS12U15-P11       | 15            | 800          | 2.1mm x 5.5mm F 2             | 90-264@47-63   | 2.6 x 1.9 x 1.0     | Black      | 6'                 | 0.3        | UL/CUL/CEC       | 12.95   | 11.49  | 10.49  | 9.49   |
| 1952871  | Mean Well    | GS18U15-P1J       | 15            | 1200         | 2.1mm x 5.5mm F 2             | 100-240@50-60  | 3.1 x 2.1 x 1.4     | Black      | 6'                 | 0.4        | UL/CUL/CE/CEC    | 15.95   | 14.95  | 13.95  | 12.95  |
| 380173   | Mean Well    | GS25U15-P1J       | 15            | 1670         | 2.1mm x 5.5mm F 2             | 90-264@47-63   | 3.1 x 2.1 x 1.3     | Black      | 6'                 | 0.5        | UL/CUL/CE        | 16.49   | 14.95  | 13.49  | 12.49  |
| 1940715  | Mean Well    | GS06U-5P1J        | 18            | 330          | 2.1mm x 5.5mm F 2             | 90-264@47-63   | 2.6 x 1.3 x 1.9     | Black      | 6'                 | 0.2        | UL/CUL/CEC       | 11.95   | 10.95  | 9.95   | 8.95   |
| 1940791  | Mean Well    | GS12U18-P11       | 18            | 670          | 2.1mm x 5.5mm F 2             | 90-264@47-63   | 2.6 x 1.9 x 1.0     | Black      | 6'                 | 0.3        | UL/CUL/CEC       | 12.95   | 11.49  | 10.49  | 9.49   |
| 380190   | Mean Well    | ES25U18-P1J       | 18            | 1380         | 2.1mm x 5.5mm F 2             | 100-240@50-60  | 3.1 x 2.1 x 1.3     | Black      | 6'                 | 0.5        | UL/CUL/CE        | 16.49   | 14.95  | 13.49  | 12.49  |
| 380191   | Mean Well    | GS25U18-P1J       | 18            | 1380         | 2.1mm x 5.5mm F 2             | 100-240@50-60  | 3.1 x 1.2 x 1.3     | Black      | 6'                 | 0.5        | UL/CUL/CEC       | 16.49   | 14.95  | 13.49  | 12.49  |
| 1940723  | Mean Well    | GS06U-6P1J        | 24            | 250          | 2.1mm x 5.5mm F 2             | 90-264@47-63   | 2.6 x 1.3 x 1.9     | Black      | 6'                 | 0.2        | UL/CUL/CEC       | 11.95   | 10.95  | 9.95   | 8.95   |
| 1940803  | Mean Well    | GS12U24-P11       | 24            | 500          | 2.1mm x 5.5mm F 2             | 90-264@47-63   | 2.6 x 1.9 x 1.0     | Black      | 6'                 | 0.3        | UL/CUL/CEC       | 12.95   | 11.49  | 10.49  | 9.49   |
| 1952898  | Mean Well    | GS18U24-P1J       | 24            | 750          | 2.1mm x 5.5mm F 2             | 90-264@47-63   | 3.1 x 2.1 x 1.3     | Black      | 6'                 | 0.5        | UL/CUL/CEC       | 15.95   | 14.95  | 13.95  | 12.95  |
| 380202   | Mean Well    | GS25U24-P1J       | 24            | 1040         | 2.1mm x 5.5mm F 2             | 100-240@50-60  | 3.1 x 2.1 x 1.3     | Black      | 6'                 | 0.5        | UL/CUL/CEC       | 16.49   | 14.95  | 13.49  | 12.49  |
| 380220   | Mean Well    | GS25U28-P1J       | 28            | 890          | 2.1mm x 5.5mm F 2             | 100-240@50-60  | 3.1 x 2.1 x 1.3     | Black      | 6'                 | 0.6        | UL/CUL/CEC       | 16.49   | 14.95  | 13.49  | 12.49  |
| 380412   | Mean Well    | ES25U36-P1M       | 36            | 690          | 2.5mm x 5.5mm F 2             | 90-264@47-63   | 3.1 x 2.1 x 1.3     | Black      | 6'                 | 0.5        | UL/CUL/CE        | 16.49   | 14.95  | 13.49  | 12.49  |
| 380244   | Mean Well    | GS25U48-P1J       | 48            | 520          | 2.1mm x 5.5mm F 2             | 100-240@50-60  | 3.1 x 2.1 x 1.3     | Black      | 6'                 | 0.5        | UL/CUL/CEC       | 16.49   | 14.95  | 13.49  | 12.49  |

\* With light indicator

† Includes 4 each interchangeable plug kit

✓ CEC equivalent available

✓ CEC

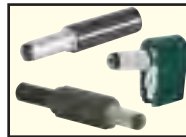
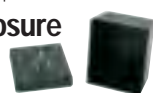
⚙ Blue Part No. = Limited Quantity Available



### 3-Prong Wall Adapter Enclosure

- 3-prong power plug and cable strain relief
- Material: noryl
- Color: black

| Part No. | Style      | Size (H x W x D)   | 1      | 10     | 100    |
|----------|------------|--------------------|--------|--------|--------|
| 115052   | Non-vented | 3.4" x 2.7" x 2.3" | \$2.25 | \$1.95 | \$1.75 |



### Looking for a Different Output Connector?

We are happy to change any listed DC wall adapter power plug to a connector of your choice (see pg 130) for just \$2.50 each.  
A 100 pc. minimum order applies.

✓ RoHS compliant product

+ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 197.



## Energy Star Worldwide Interchangeable AC-to-DC Regulated Switching Wall Adapters

Meets US and European Energy Star compliance. Approved for European high-efficiency power applications.

- Field changeable AC Plug Clips (sold separately, see below)
- Input voltage: 90-264VAC @ 47-63Hz
- Output connector: 2.1mm x 5.5mm female center positive; except P/N 1918702: 2.5mm x 5.5mm female right angle center positive
- Load regulation: ±5%
- Class B EMI
- Color: black
- Applications: wireless communications, portable equipment, digital camera, peripherals and networking
- Regulated output
- Double insulated



\*Web Code: NBH



Phihong & Mean Well AC Plug Clips (below)



Shown w/o AC Plug Clip  
AC Plug Clips Not Included

Wall Adapters (AC Plug Clip required, not included)

| Part No. | Manufacturer | Mfr. Part No. | Output Volt. (VDC) | Current (A) | Power (W) | Ripple (mVp-p) | Line Regulation | Efficiency (%) | Dimensions (L" x W" x H") | Pricing |        |        |        |
|----------|--------------|---------------|--------------------|-------------|-----------|----------------|-----------------|----------------|---------------------------|---------|--------|--------|--------|
|          |              |               |                    |             |           |                |                 |                |                           | 1       | 10     | 50     | 100    |
| 1950761  | Phihong      | PSA05R-050PA  | 5                  | 1.0         | 5         | 50             | ±1%             | 60 - 75        | 2.8 x 1.8 x 1.2           | \$5.95  | \$5.49 | \$4.95 | \$4.49 |
| 2082302  | Mean Well    | GE12105-P1J   | 5                  | 2.0         | 10        | 50             | ±5%             | 70             | 2.8 x 1.6 x 1.5           | 14.95   | 13.49  | 11.95  | 10.95  |
| 2095429  | Phihong      | PSMIIR-060    | 6                  | 1.66        | 10        | 100            | ±5%             | 73             | 2.8 x 1.8 x 1.2           | 14.95   | 13.49  | 11.95  | 10.95  |
| 1918702  | Globtek      | GT-41052-1506 | 6                  | 2.5         | 15        | 100            | ±1%             | 76             | 2.9 x 1.7 x 1.5           | 22.95   | 19.95  | 17.95  | 15.95  |
| 2082311  | Mean Well    | GE18109-P1J   | 9                  | 2.0         | 18        | 100            | ±5%             | 75             | 3.2 x 1.7 x 1.6           | 16.95   | 15.49  | 13.95  | 12.95  |
| 228770   | Phihong      | PSA05R-120    | 12                 | 0.42        | 5         | 120            | ±5%             | 60             | 2.8 x 1.8 x 1.2           | 12.95   | 11.49  | 10.49  | 9.49   |
| 2108656  | Phihong      | PSC12R-120    | 12                 | 1.0         | 12        | 240            | ±5%             | 78             | 2.8 x 1.8 x 1.2           | 14.95   | 13.49  | 11.95  | 10.95  |
| 2100179  | Phihong      | PSAA20R-120R  | 12                 | 1.67        | 20        | 120            | ±5%             | 81             | 2.8 x 2.0 x 1.3           | 19.95   | 18.95  | 16.95  | 15.95  |
| 2082329  | Phihong      | PSC30R-120    | 12                 | 2.5         | 30        | 180            | ±1%             | 80             | 3.8 x 2.1 x 1.2           | 23.95   | 21.49  | 18.95  | 16.95  |
| 2114423  | APS*         | PA1050-120-1  | 12                 | 3.33        | 40        | 120            | ±1%             | 75             | 4.3 x 2.1 x 1.3           | 22.95   | 20.49  | 17.95  | 15.95  |
| 2114458  | APS*         | PA1050-120-1  | 12                 | 4.16        | 50        | 120            | ±1%             | 75             | 4.3 x 2.1 x 1.3           | 24.95   | 22.49  | 19.95  | 17.95  |
| 2082337  | Mean Well    | GE12115-P1J   | 15                 | 0.8         | 12        | 150            | ±3%             | 76             | 2.8 x 1.6 x 1.5           | 13.95   | 12.49  | 10.95  | 9.95   |
| 2082345  | Mean Well    | GE12124-P1J   | 24                 | 0.63        | 15        | 240            | ±3%             | 80             | 2.8 x 1.6 x 1.5           | 13.95   | 12.49  | 10.95  | 9.95   |
| 2114431  | APS*         | PA1050-240-1  | 24                 | 1.67        | 40        | 240            | ±1%             | 75             | 4.3 x 2.1 x 1.3           | 22.95   | 20.49  | 17.95  | 15.95  |
| 2114466  | APS*         | PA1050-240-1  | 24                 | 2.08        | 50        | 240            | ±1%             | 75             | 4.3 x 2.1 x 1.3           | 24.95   | 22.49  | 19.95  | 17.95  |
| 2114440  | APS*         | PA1050-480-1  | 48                 | 0.83        | 40        | 480            | ±1%             | 75             | 4.3 x 2.1 x 1.3           | 24.95   | 22.49  | 19.95  | 17.95  |

† Comes with USA AC plug clip (RPA) # 2.5mm x 5.5mm female right angle center positive plug \* Kit includes US, UK, EU, AUS plugs

### Phihong AC Plug Clips (sold separately, required for above adapters)

| Part No. | Mfr. P/N | Description (see above for photos)     | 1      | 10     | 50     | 100    |
|----------|----------|--|--------|--------|--------|--------|
| 229155   | RPA      | USA AC plug only                       | \$ .69 | \$ .65 | \$ .59 | \$ .55 |
| 229163   | RPE      | European AC plug only                  | .69    | .65    | .59    | .55    |
| 229171   | RPK      | United Kingdom AC plug only            | 1.05   | .99    | .95    | .89    |
| 2081422  | RPS      | Australia AC plug only                 | 1.75   | 1.69   | 1.65   | 1.59   |
| 229181   | RPKIT    | Kit includes RPA/RPE/RPK/RPS clips (4) | 3.49   | 2.95   | 2.69   | 2.39   |

### Mean Well Plug AC Clips (sold separately, required for above adapters)

| Part No. | Mfr. P/N    | Description (see above for photos)     | 1      | 10     | 50     | 100    |
|----------|-------------|--|--------|--------|--------|--------|
| 2082353  | AC-Plug-US  | USA AC plug only                       | \$ .69 | \$ .65 | \$ .62 | \$ .59 |
| 2082361  | AC-Plug-EU  | European AC plug only                  | .89    | .85    | .79    | .75    |
| 2082370  | AC-Plug-UK  | United Kingdom AC plug only            | 1.09   | 1.05   | .99    | .95    |
| 2082388  | AC-Plug-AU  | Australia AC plug only                 | .95    | .89    | .85    | .79    |
| 2082396  | AC-Plug-MIX | Kit includes US, EU, UK & AU clips (4) | 3.49   | 2.95   | 2.69   | 2.39   |



## AC-to-DC Regulated Linear Wall Adapters

We specialize in Wall Adapters – Call for additional OEM PRICING.

\*Web Code: WAZ

♦ Polarity figures & photos on next page

| Part No. | Manufacturer | Product No.     | Output Rating |              | Output Connector ID x OD mm Female/Male; Polarity ♦ | Input VAC @ Hz | Size (H" x W" x D") | Case Color | Output Cord Length | Wt. (lbs.) | Agency Approvals | Pricing |        |        |        |
|----------|--------------|-----------------|---------------|--------------|---|----------------|---------------------|------------|--------------------|------------|------------------|---------|--------|--------|--------|
|          |              |                 | Voltage (VDC) | Current (mA) |   |                |                     |            |                    |            |                  | 1       | 10     | 50     | 100    |
| 164101   | ReliaPro     | GPU410500       | 5             | 500          | 2.1mm x 5.5mm F 2                                   | 120@60         | 2.8 x 2.0 x 1.6     | Black      | 6'                 | 0.6        | UL/CUL           | \$9.95  | \$8.95 | \$7.95 | \$6.95 |
| 220935   | ReliaPro     | DDU050060       | 5             | 600          | 2.1mm x 5.5mm F 1                                   | 120@60         | 2.7 x 2.2 x 1.9     | Black      | 6'                 | 0.8        | UL/CUL           | 10.95   | 9.95   | 8.95   | 7.95   |
| 319986   | DVE          | DV-580R         | 5             | 800          | 2.5mm x 5.5mm F 2                                   | 120@60         | 3.2 x 2.2 x 2.0     | Black      | 6'                 | 1.0        | UL/CUL           | 10.95   | 9.95   | 8.95   | 7.95   |
| 2081609  | Condor       | RWP480505       | 5             | 1000         | 2.1mm x 5.5mm F 2                                   | 120@60         | 3.2 x 2.2 x 1.9     | Black      | 6'                 | 1.2        | UL/CSA           | 12.95   | 11.49  | 9.95   | 8.95   |
| 1953612  | ReliaPro     | DBU0501000      | 5             | 1000         | 2.1mm x 5.5mm F 2                                   | 120@60         | 3.3 x 2.2 x 1.9     | Black      | 6'                 | 1.2        | UL/CSA           | 12.95   | 11.49  | 9.95   | 8.95   |
| 168605   | ReliaPro     | DBU0501000      | 5             | 1000         | 2.5mm x 5.5mm F 2                                   | 120@60         | 3.3 x 2.2 x 1.9     | Black      | 6'                 | 1.2        | UL/CSA           | 12.95   | 11.49  | 9.95   | 8.95   |
| 681571   | ITE          | RWP480505-2     | 5             | 1000         | 2.5mm x 5.5mm right angle F 2                       | 120@60         | 3.3 x 2.2 x 1.9     | Black      | 6'                 | 1.0        | UL/CUL           | 12.95   | 11.49  | 9.95   | 8.95   |
| 1919220  | Friwo        | FE4823          | 5             | 1200         | 2.5mm x 5.5mm F 2                                   | 120@60         | 3.5 x 2.4 x 1.9     | Black      | 6'                 | 1.2        | UL/CUL           | 14.95   | 13.49  | 11.95  | 10.95  |
| 190512   | ReliaPro     | DBU60020-H3570  | 6             | 200          | 2.1mm x 5.5mm F 2                                   | 120@60         | 2.2 x 1.7 x 1.5     | Black      | 6'                 | 0.4        | UL/CUL           | 9.95    | 8.95   | 7.95   | 6.95   |
| 283573   | ReliaPro     | ADR-6V500MA-2.1 | 6             | 500          | 2.1mm x 5.5mm F 2                                   | 120@60         | 3.1 x 2.0 x 1.7     | Black      | 6'                 | 0.6        | UL/CSA           | 10.95   | 9.95   | 8.95   | 7.95   |
| 1953701  | ReliaPro     | ADR-6V500MA-2.5 | 6             | 500          | 2.5mm x 5.5mm F 2                                   | 120@60         | 3.1 x 2.0 x 1.7     | Black      | 6'                 | 0.6        | UL/CSA           | 9.95    | 8.95   | 7.95   | 6.95   |
| 1953719  | ReliaPro     | DBU0601000      | 6             | 1000         | 2.1mm x 5.5mm F 2                                   | 120@60         | 3.2 x 2.3 x 2.0     | Black      | 6'                 | 1.3        | UL/CSA           | 12.95   | 11.49  | 9.95   | 8.95   |
| 190529   | ReliaPro     | AD9123          | 9             | 250          | 2.5mm x 5.5mm right angle F 2                       | 120@60         | 2.5 x 2.0 x 1.6     | Black      | 6'                 | 0.5        | UL/CSA           | 9.95    | 8.95   | 7.95   | 6.95   |
| 1953639  | ReliaPro     | DCU09050        | 9             | 500          | 2.1mm x 5.5mm F 2                                   | 120@60         | 3.3 x 2.2 x 1.9     | Black      | 6'                 | 0.9        | UL/CSA           | 10.95   | 9.95   | 8.95   | 7.95   |
| 1953647  | ReliaPro     | DCU09050        | 9             | 500          | 2.5mm x 5.5mm F 2                                   | 120@60         | 3.3 x 2.2 x 1.9     | Black      | 6'                 | 0.9        | UL/CSA           | 10.95   | 9.95   | 8.95   | 7.95   |
| 222898   | ReliaPro     | DCU120020       | 12            | 200          | 2.1mm x 5.5mm F 1                                   | 120@60         | 2.5 x 2.0 x 1.7     | Black      | 6'                 | 0.5        | UL/CUL           | 9.95    | 8.95   | 7.95   | 6.95   |
| 1953655  | ReliaPro     | DDU120050H      | 12            | 500          | 2.1mm x 5.5mm F 1                                   | 120@60         | 2.9 x 2.2 x 1.9     | Black      | 6'                 | 1.3        | UL/CSA           | 10.95   | 9.95   | 8.95   | 7.95   |
| 162996   | ReliaPro     | DDU120050       | 12            | 500          | 2.1mm x 5.5mm F 2                                   | 120@60         | 3.2 x 2.2 x 1.9     | Black      | 6'                 | 0.9        | UL/CUL           | 10.95   | 9.95   | 8.95   | 7.95   |
| 170245   | ReliaPro     | RDU120100       | 12            | 1000         | 2.1mm x 5.5mm F 2                                   | 120@60         | 3.2 x 2.3 x 2.0     | Black      | 6'                 | 1.2        | UL/CUL           | 14.95   | 13.49  | 11.95  | 10.95  |
| 1953663  | ReliaPro     | DCU1201000      | 12            | 1000         | 2.5mm x 5.5mm F 2                                   | 120@60         | 3.3 x 2.3 x 2.0     | Black      | 6'                 | 1.2        | UL/CSA           | 14.95   | 13.49  | 11.95  | 10.95  |
| 174861   | ReliaPro     | DFU240050       | 24            | 500          | 2.1mm x 5.5mm F 2                                   | 120@60         | 3.4 x 2.7 x 2.2     | Black      | 6'                 | 1.3        | UL/CUL           | 12.95   | 11.49  | 9.95   | 8.95   |
| 1953680  | ReliaPro     | DFU240500W      | 24            | 500          | 2.5mm x 5.5mm F 1                                   | 120@60         | 3.1 x 2.2 x 2.0     | Black      | 6'                 | 1.2        | UL/CUL           | 11.95   | 10.95  | 9.95   | 8.95   |
| 174879   | ReliaPro     | DCU090025       | 24            | 500          | 2.5mm x 5.5mm F 2                                   | 120@60         | 3.4 x 2.7 x 2.2     | Black      | 6'                 | 1.3        | UL/CUL           | 12.95   | 11.49  | 9.95   | 8.95   |
| 1953698  | ReliaPro     | DFU2401000      | 24            | 1000         | 2.1mm x 5.5mm F 2                                   | 120@60         | 3.4 x 2.7 x 2.2     | Black      | 6'                 | 1.3        | UL/CSA           | 16.95   | 14.95  | 13.49  | 11.95  |
| 1953671  | ReliaPro     | MPC-2400107     | 24            | 1000         | 2.5mm x 5.5mm F 2                                   | 120@60         | 3.4 x 2.7 x 2.2     | Black      | 6'                 | 1.3        | UL/CSA           | 16.95   | 14.49  | 11.95  | 10.95  |

\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above



# AC-to-DC Unregulated Linear Wall Adapters

3 LEVELS OF SAVINGS  
NAME BRANDS HOUSE BRANDS FACTORY OVERRUN



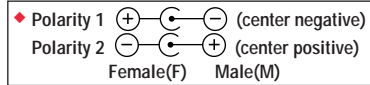
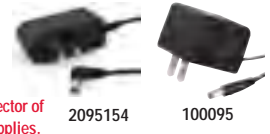
## AC-to-DC Unregulated Linear Wall Adapters

120VAC @ 60Hz

We specialize in Wall Adapters - Call for additional OEM PRICING.

\*Web Code: UAP

We are happy to change any listed DC wall adapter power plug to a connector of your choice (see pg 130) for just \$2.50 each. A 100 pc. minimum order applies.



| Part No. | Manufacturer  | Product No.     | Output Rating    |               | Output Connector<br>ID x OD mm<br>Female/Male; Polarity ◆ | Size<br>(H" x W" x D") | Case<br>Color | Output<br>Cord<br>Length | Wt.<br>(lbs.) | Agency<br>Approvals | Pricing |        |        |        |
|----------|---------------|-----------------|------------------|---------------|---|------------------------|---------------|--------------------------|---------------|---------------------|---------|--------|--------|--------|
|          |               |                 | Voltage<br>(VDC) | Curr.<br>(mA) |   |                        |               |                          |               |                     | 1       | 10     | 50     | 100    |
| 112070   | ReliaPro      | DBU050022Z5480  | 5                | 225           | 2.5mm x 5.5mm F 2   | 1.9 x 2.2 x 2.0        | Black         | 7'                       | 0.3           | UL/CSA              | \$4.95  | \$4.49 | \$3.95 | \$3.59 |
| 155601   | ReliaPro      | DCU050100B3582  | 5                | 1000          | 2.1mm x 5.5mm F 2   | 2.6 x 2.0 x 1.7        | Black         | 6'                       | 0.7           | UL/CSA              | 9.95    | 8.95   | 7.95   | 6.95   |
| 1918657  | ReliaPro      | DDU050100       | 5                | 1000          | 2.5mm x 5.5mm F 2   | 3.2 x 2.2 x 1.9        | Black         | 6'                       | 0.7           | UL/CUL              | 9.95    | 8.95   | 7.95   | 6.95   |
| 237251   | Freeplay      | DPX350817       | 6                | 100           | 2.1mm x 5.5mm F 2   | 2.4 x 1.7 x 1.4        | Black         | 6'                       | 0.4           | UL/CSA              | 3.95    | 3.59   | 3.19   | 2.89   |
| 302439   | Dynage        | LF06300D-08     | 6                | 300           | 2.1mm x 5.5mm F 2   | 2.2 x 1.7 x 1.5        | Black         | 6'                       | 0.4           | UL/CSA              | 4.95    | 4.49   | 3.95   | 3.59   |
| 2099551  | Fuhua         | UE-3560300D     | 6                | 300           | 2.5mm x 5.5mm F 2   | 2.2 x 1.7 x 1.7        | Black         | 6'                       | 0.4           | UL/CUL              | 4.95    | 4.49   | 3.95   | 3.59   |
| 119255   | ReliaPro      | DBU060050Z2251  | 6                | 500           | 2.1mm x 5.5mm F 1   | 2.3 x 1.8 x 1.8        | Black         | 6'                       | 0.6           | UL/CUL              | 6.95    | 6.25   | 5.59   | 4.95   |
| 101266   | ReliaPro      | DBU060050E3860  | 6                | 500           | 2.1mm x 5.5mm F 2   | 2.4 x 1.9 x 1.6        | Black         | 6'                       | 0.4           | UL/CSA              | 6.95    | 6.25   | 5.59   | 4.95   |
| 15544    | ReliaPro      | DBU060050Z8371  | 6                | 500           | 3.5mm M 2   | 2.4 x 1.9 x 1.6        | Black         | 6'                       | 0.4           | UL/CSA              | 6.95    | 6.25   | 5.59   | 4.95   |
| 2081431  | PEI           | DV-0670-B14     | 6                | 700           | 2.1mm x 5.5mm F 2   | 2.4 x 2.0 x 1.6        | Black         | 6'                       | 0.5           | UL/CUL              | 5.95    | 5.39   | 4.79   | 4.29   |
| 147707   | ReliaPro      | DBU060080C6962  | 6                | 800           | 2.1mm x 5.5mm F 2   | 2.3 x 2.0 x 1.6        | Black         | 6'                       | 0.6           | UL/CSA              | 7.95    | 6.95   | 5.95   | 4.95   |
| 220943   | ReliaPro      | DCU060120G2401  | 6                | 1200          | 2.1mm x 5.5mm F 1   | 2.5 x 2.0 x 1.7        | Black         | 6'                       | 0.7           | UL/CUL              | 8.95    | 7.95   | 6.95   | 5.95   |
| 2095154  | Thomson       | 5-2760          | 7.5              | 500           | 2.1mm x 5.5mm right angle F 2                             | 2.5 x .96 x 1.4        | Black         | 6'                       | 0.4           | UL/CUL              | 4.95    | 4.49   | 3.95   | 3.59   |
| 220951   | ReliaPro      | DCU075100G2291  | 7.5              | 1000          | 2.1mm x 5.5mm F 1   | 2.5 x 2.0 x 1.7        | Black         | 6'                       | 0.6           | UL/CUL              | 8.95    | 7.95   | 6.95   | 5.95   |
| 248751   | Uniq          | AD-071A         | 7.5              | 1000          | 2.5mm x 5.5mm F 2   | 2.3 x 2.3 x 1.9        | Black         | 6'                       | 0.9           | UL/CSA              | 4.95    | 4.49   | 3.95   | 3.59   |
| 280250   | ReliaPro      | DDU075110G9521  | 7.5              | 1100          | 2.1mm x 5.5mm F 2   | 2.9 x 2.3 x 1.9        | Black         | 6'                       | 0.9           | UL/CUL              | 8.95    | 7.95   | 6.95   | 5.95   |
| 127511   | ReliaPro      | DDU080100E2281  | 8                | 1000          | 2.1mm x 5.5mm F 2   | 3.1 x 2.5 x 2.1        | Black         | 6'                       | 1.3           | UL                  | 9.95    | 8.95   | 7.95   | 6.95   |
| 355936   | ReliaPro      | DBU090020       | 9                | 200           | 1.3mm x 3.5mm F 2   | 2.2 x 1.7 x 1.5        | Black         | 6'                       | 0.4           | UL/CUL              | 5.95    | 5.35   | 4.79   | 4.39   |
| 134025   | ReliaPro      | DBU090020Z6100  | 9                | 200           | 2.1mm x 5.5mm F 1   | 2.1 x 1.7 x 1.6        | Black         | 6'                       | 0.4           | UL/CSA              | 5.95    | 5.35   | 4.79   | 4.39   |
| 2100152  | TONT          | AP2911          | 9                | 200           | 2.1mm x 5.5mm F 2   | 2.6 x 1.8 x 1.5        | Black         | 6'                       | 0.4           | UL/CUL              | 4.95    | 4.49   | 3.95   | 3.59   |
| 100845   | ReliaPro      | DBU090020E0850  | 9                | 200           | 2.1mm x 5.5mm F 2   | 2.1 x 1.7 x 1.5        | Black         | 6'                       | 0.4           | UL/CSA              | 5.95    | 5.35   | 4.79   | 4.39   |
| 2082556  | Thomson       | 5-2616          | 9                | 200           | 2.1mm x 5.5mm right angle F 2                             | 2.2 x 1.4 x 1.4        | Black         | 6'                       | 0.5           | UL/CUL              | 4.95    | 4.49   | 3.95   | 3.59   |
| 2082548  | Atlinks       | 5-2617          | 9                | 200           | 2.1mm x 5.5mm right angle F 2                             | 2.2 x 1.4 x 1.4        | Gray          | 6'                       | 0.5           | UL/CUL              | 4.95    | 4.49   | 3.95   | 3.59   |
| 100837   | ReliaPro      | DBU090020Z5490  | 9                | 200           | 3.5mm M 2   | 2.6 x 1.8 x 1.6        | Black         | 6'                       | 0.4           | UL/CSA              | 5.95    | 5.35   | 4.79   | 4.39   |
| 2082572  | Atlinks       | 5-2677          | 9                | 210           | 2.1mm x 5.5mm right angle F 2                             | 2.2 x 1.4 x 1.4        | Black         | 6'                       | 0.5           | UL/CUL              | 4.95    | 4.49   | 3.95   | 3.59   |
| 133891   | ReliaPro      | DBU090030C112   | 9                | 300           | 2.1mm x 5.5mm F 2   | 2.0 x 1.5 x 1.5        | Black         | 6'                       | 0.4           | UL/CSA              | 5.95    | 5.35   | 4.79   | 4.39   |
| 318676   | ReliaPro      | DBU090030H5790  | 9                | 300           | 2.5mm x 5.5mm F 1   | 2.2 x 1.7 x 1.5        | Black         | 6'                       | 0.4           | UL/CUL              | 5.95    | 5.39   | 4.79   | 4.39   |
| 1949120  | Various       | AD35-0900300DU  | 9                | 300           | 2.5mm x 5.5mm F 2   | 2.2 x 1.7 x 1.5        | Black         | 6'                       | 0.4           | UL                  | 4.95    | 4.49   | 3.95   | 3.59   |
| 189238   | ReliaPro      | DBU090030H4540  | 9                | 300           | 2.5mm x 5.5mm F 2   | 2.2 x 1.7 x 1.5        | Black         | 6'                       | 0.4           | UL/CUL              | 5.95    | 5.35   | 4.79   | 4.39   |
| 202155   | ReliaPro      | DBU090035F1982  | 9                | 350           | 2.1mm x 5.5mm F 2   | 2.2 x 1.7 x 1.5        | Black         | 6'                       | 0.3           | UL/CUL              | 5.95    | 5.39   | 4.79   | 4.29   |
| 1954615  | Mei Int.      | MADA-2131       | 9                | 350           | 2.5 mm M 1  | 2.2 x 1.7 x 1.5        | Black         | 6'                       | 0.3           | UL/CUL              | 4.95    | 4.49   | 3.95   | 2.95   |
| 140636   | ReliaPro      | DCU090040C6351  | 9                | 400           | 2.5mm x 5.5mm F 2   | 2.6 x 2.0 x 2.0        | Black         | 6'                       | 0.6           | UL/CSA              | 5.95    | 5.35   | 4.79   | 4.25   |
| 163628   | ReliaPro      | DCU090050Z7484  | 9                | 500           | 2.1mm x 5.5mm F 1   | 2.5 x 1.9 x 1.7        | Black         | 6'                       | 0.6           | UL/CSA              | 6.95    | 6.25   | 5.59   | 4.95   |
| 100853   | ReliaPro      | DCU090050E2961  | 9                | 500           | 2.1mm x 5.5mm F 2   | 2.5 x 1.9 x 1.7        | Black         | 6'                       | 0.6           | UL/CSA              | 6.95    | 6.25   | 5.59   | 4.95   |
| 147732   | ReliaPro      | OH-41036DT      | 9                | 500           | 2.1mm x 5.5mm F 2   | 2.6 x 2.0 x 1.7        | Beige         | 6'                       | 0.6           | UL/CSA              | 6.95    | 6.25   | 5.59   | 4.95   |
| 236937   | ReliaPro      | DCU090050G6440  | 9                | 500           | 2.5mm x 5.5mm right angle F 2                             | 2.5 x 2.0 x 1.7        | Black         | 6'                       | 0.4           | UL/CSA              | 6.95    | 6.25   | 5.59   | 4.95   |
| 1586162  | CUI Inc       | DPD090050       | 9                | 500           | 3.5mm M 2   | 2.3 x 1.9 x 1.6        | Black         | 6'                       | 0.6           | UL/CSA              | 5.95    | 4.95   | 4.29   | 3.69   |
| 15561    | ReliaPro      | DCU090050A2011  | 9                | 500           | 3.5mm M 2   | 2.5 x 2.0 x 1.6        | Black         | 6'                       | 0.5           | UL/CSA              | 6.95    | 6.25   | 5.59   | 4.95   |
| 202180   | ReliaPro      | DCU090060F2091  | 9                | 600           | 2.1mm x 5.5mm F 2   | 3.3 x 2.9 x 2.3        | Black         | 6'                       | 0.6           | UL/CUL              | 6.95    | 6.25   | 5.59   | 4.95   |
| 100175   | ReliaPro      | DCU090060Z6652  | 9                | 600           | 2.5mm x 5.5mm F 2   | 2.7 x 2.0 x 1.7        | Black         | 6'                       | 0.6           | UL/CSA              | 6.95    | 6.25   | 5.59   | 4.95   |
| 202198   | ReliaPro      | DCU090080F2221  | 9                | 800           | 2.1mm x 5.5mm F 2   | 3.3 x 2.9 x 2.3        | Black         | 6'                       | 0.6           | UL/CUL              | 8.95    | 7.95   | 6.95   | 5.95   |
| 421577   | Powerline     | O900-12         | 9                | 850           | 2.5mm x 5.5mm F 2   | 2.7 x 2.1 x 1.7        | Black         | 6'                       | 0.8           | UL/CSA              | 6.95    | 6.25   | 5.59   | 3.95   |
| 164929   | ReliaPro      | DDU09100C2550   | 9                | 900           | 2.1mm x 5.5mm F 1   | 2.7 x 2.3 x 1.8        | Black         | 6'                       | 0.9           | UL/CUL              | 6.95    | 6.25   | 5.59   | 4.95   |
| 421690   | Fisher Price  | SA48-29A        | 9                | 1000          | 2.1mm x 5.5mm F 2   | 3.1 x 2.2 x 1.8        | Black         | 6'                       | 1.1           | UL/CSA              | 6.95    | 5.95   | 4.95   | 3.95   |
| 364576   | ReliaPro      | DDU09100J0490   | 9                | 1000          | 2.1mm x 5.5mm F 2   | 2.9 x 2.3 x 1.9        | Black         | 6'                       | 0.9           | UL/CUL              | 9.95    | 8.95   | 7.95   | 6.95   |
| 227774   | GTE           | ADP2108GT       | 9                | 1000          | 2.1mm x 5.5mm right angle F 2                             | 2.5 x 2.2 x 1.9        | Black         | 6'                       | 0.9           | UL/CUL              | 7.95    | 6.95   | 5.95   | 4.95   |
| 2099905  | Golden Regent | W48D-H1000      | 9                | 1000          | 2.5mm x 5.5mm F 1 (US plug)                               | 3.2 x 2.3 x 1.9        | Black         | 6'                       | 0.9           | UL/CUL              | 9.95    | 8.95   | 7.95   | 6.95   |
| 2099913  | ENG *         | T48-9-1000D3    | 9                | 1000          | 2.5mm x 5.5mm F 1 (Euro plug)                             | 3.2 x 2.3 x 1.9        | Black         | 6'                       | 0.9           | CE/TUV              | 8.95    | 7.95   | 6.95   | 6.25   |
| 2099921  | ENG *         | T48-9-1000D4    | 9                | 1000          | 2.5mm x 5.5mm F 1 (UK plug)                               | 3.2 x 2.3 x 1.9        | Black         | 6'                       | 0.9           | CE/TUV              | 8.95    | 7.95   | 6.95   | 6.25   |
| 127505   | ReliaPro      | DDU0910100      | 9                | 1000          | 2.5mm x 5.5mm F 2   | 2.6 x 2.4 x 2.0        | Black         | 6'                       | 0.9           | UL/CSA              | 9.95    | 8.95   | 7.95   | 6.95   |
| 1586082  | GTE           | ADP2108GT (2.5) | 9                | 1000          | 2.5mm M 2   | 2.6 x 2.2 x 1.9        | Black         | 6'                       | 0.9           | UL/CSA              | 7.95    | 6.95   | 5.95   | 4.95   |
| 15587    | ReliaPro      | DDU09100Z9081   | 9                | 1000          | 3.5mm M 2   | 2.6 x 2.4 x 2.0        | Black         | 6'                       | 0.9           | UL/CSA              | 9.95    | 8.95   | 7.95   | 6.95   |
| 130526   | ReliaPro      | DDE090120F3621  | 9                | 1200          | 2.1mm x 5.5mm F 1   | 2.4 x 2.0 x 1.8        | Black         | 6'                       | 1.0           | UL/CSA              | 10.95   | 9.95   | 8.95   | 7.95   |
| 143693   | ReliaPro      | DFU0901500A3040 | 9                | 1500          | 2.1mm x 5.5mm F 2   | 3.3 x 2.5 x 2.3        | Black         | 6'                       | 1.3           | UL/CSA              | 12.95   | 11.49  | 9.95   | 8.95   |
| 2082193  | Philips       | SPA-3545-81     | 12               | 100           | 2.1mm x 5.5mm F 2   | 2.5 x 1.8 x 1.5        | Black         | 6'                       | 0.5           | UL/CSA              | 7.95    | 6.95   | 6.25   | 4.95   |
| 163993   | ReliaPro      | DBU120020E2291  | 12               | 200           | 2.1mm x 5.5mm right angle F 1                             | 2.4 x 1.7 x 1.6        | Black         | 6'                       | 0.4           | UL/CSA              | 5.49    | 4.95   | 4.75   | 4.29   |
| 100095   | ReliaPro      | DBU120020G0610  | 12               | 200           | 2.1mm x 5.5mm F 2   | 2.1 x 1.8 x 1.5        | Black         | 6'                       | 0.4           | UL/CSA              | 5.49    | 4.95   | 4.75   | 4.29   |
| 158043   | ReliaPro      | DBU120020E2261  | 12               | 200           | 2.1mm x 5.5mm right angle F 2                             | 2.2 x 1.7 x 1.5        | Black         | 6'                       | 0.4           | UL/CSA              | 5.95    | 5.39   | 4.59   | 3.95   |
| 127976   | ReliaPro      | DCU120030D7161  | 12               | 300           | 2.1mm x 5.5mm F 2   | 2.6 x 1.8 x 1.6        | Black         | 6'                       | 0.7           | UL/CSA              | 6.95    | 6.25   | 5.59   | 4.95   |
| 2082046  | Videx         | U/090/9         | 12               | 300           | 2.1mm x 5.5mm right angle F 2                             | 2.5 x 1.9 x 1.7        | Black         | 6'6"                     | 0.6           | UL/CSA              | 6.95    | 6.25   | 5.59   | 4.95   |
| 249236   | ReliaPro      | DBU120030G8970  | 12               | 300           | 2.5mm x 5.5mm right angle F 2                             | 2.2 x 1.7 x 1.5        | Black         | 6'                       | 0.5           | UL/CUL              | 6.95    | 6.25   | 5.59   | 4.95   |

\* 240VAC 50Hz Blue Part No. = Limited Quantity Available

More AC-to-DC Wall Adapters listed on pages 121-123 & 125

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 197.

# AC-to-DC Unregulated Linear Wall Adapters

JAMECO ReliaPro

## AC-to-DC Unregulated Linear Wall Adapters (Continued)

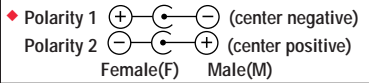
★ Web Code: UAP

120VAC @ 60Hz

We specialize in Wall Adapters – Call for additional OEM PRICING.



We are happy to change any listed DC wall adapter power plug to a connector of your choice (see pg 130) for just \$2.50 each. A 100 pc. minimum order applies.



| Part No. | Manufacturer | Product No.      | Output Rating              |               | Output Connector<br>ID x OD mm<br>Female/Male: Polarity ◆                           | Size<br>(H" x W" x D") | Case<br>Color | Output<br>Cord<br>Length | Wt.<br>(lbs.) | Agency<br>Approvals | Pricing |        |        |        |
|----------|--------------|------------------|----------------------------|---------------|---|------------------------|---------------|--------------------------|---------------|---------------------|---------|--------|--------|--------|
|          |              |                  | Voltage<br>(VDC)           | Curr.<br>(mA) |   |                        |               |                          |               |                     | 1       | 10     | 50     | 100    |
| 190503   | ReliaPro     | ADA-410          | 12                         | 400           | 2.1mm x 5.5mm right angle F 2   | 2.6 x 2.1 x 1.9        | Black         | 6'                       | 0.5           | UL/CUL              | \$7.49  | \$6.95 | \$5.65 | \$4.95 |
| 213575   | Ault         | 5312-000-418     | 12                         | 400           | 2.5mm x 5.5mm right angle F 1   | 2.9 x 2.6 x 1.9        | Black         | 12'                      | 0.7           | UL/CSA              | 7.95    | 7.29   | 6.59   | 5.95   |
| 114825   | ReliaPro     | DCU120050D4740   | 12                         | 500           | Stripped & tinned   | 2.5 x 2.0 x 1.7        | Black         | 6'                       | 0.6           | UL/CUL              | 6.29    | 4.95   | 4.39   | 4.19   |
| 15368    | ReliaPro     | DCU120050ZB698   | 12                         | 500           | 2.1mm x 5.5mm F 1   | 2.5 x 1.9 x 1.6        | Black         | 6'                       | 0.6           | UL/CSA              | 6.49    | 5.95   | 5.39   | 4.95   |
| 102496   | ReliaPro     | DCU120050E8601   | 12                         | 500           | 2.1mm x 5.5mm F 2   | 2.5 x 1.9 x 1.6        | Black         | 6'                       | 0.6           | UL/CSA              | 7.95    | 7.29   | 6.59   | 5.95   |
| 131300   | ReliaPro     | DCU120050E0251   | 12                         | 500           | 2.1mm x 5.5mm right angle F 2   | 2.6 x 1.9 x 1.7        | Beige         | 6'                       | 0.6           | UL/CSA              | 7.95    | 7.29   | 6.59   | 5.95   |
| 102277   | ReliaPro     | DCU120050UE2631  | 12                         | 500           | 2.5mm x 5.5mm F 2   | 2.5 x 2.1 x 1.7        | Black         | 6'                       | 0.6           | UL/CSA              | 7.95    | 7.29   | 6.59   | 5.95   |
| 17267    | ReliaPro     | DCU120050Z5391   | 12                         | 500           | 3.5mm M 2   | 2.5 x 1.9 x 1.6        | Black         | 6'                       | 0.6           | UL/CSA              | 7.95    | 7.29   | 6.59   | 5.59   |
| 202201   | ReliaPro     | DCU120060F2131   | 12                         | 600           | 2.1mm x 5.5mm F 2   | 3.3 x 2.9 x 2.3        | Black         | 6'                       | 0.6           | UL/CUL              | 7.95    | 7.29   | 6.59   | 5.95   |
| 202219   | ReliaPro     | DCU120070F2142   | 12                         | 700           | 2.1mm x 5.5mm F 2   | 3.3 x 2.9 x 2.3        | Black         | 6'                       | 0.6           | UL/CUL              | 8.95    | 7.95   | 7.29   | 6.49   |
| 117479   | ReliaPro     | DDU120080E6451   | 12                         | 800           | 2.1mm x 5.5mm F 2   | 3.0 x 2.3 x 2.0        | Black         | 6'                       | 0.9           | UL/CSA              | 8.95    | 7.95   | 7.29   | 6.49   |
| 129331   | ReliaPro     | DDU120080F2412   | 12                         | 800           | 2.5mm x 5.5mm F 2   | 3.0 x 2.3 x 2.0        | Black         | 6'                       | 0.9           | UL/CSA              | 8.95    | 7.95   | 7.29   | 6.49   |
| 121232   | ReliaPro     | DDU120080F2271   | 12                         | 800           | 3.5mm M 2   | 2.6 x 2.4 x 2.0        | Black         | 6'                       | 0.9           | UL/CSA              | 7.95    | 7.25   | 5.95   | 5.45   |
| 2099884  | DVE          | DV1280-3         | 12                         | 1000          | 2.1mm x 5.5mm F 2   | 3.2 x 2.2 x 1.9        | Black         | 6'                       | 1.0           | UL/CSA              | 8.95    | 7.95   | 6.95   | 6.25   |
| 100870   | ReliaPro     | DDU120100Z7974   | 12                         | 1000          | 2.1mm x 5.5mm F 2   | 2.6 x 2.4 x 1.9        | Black         | 6'                       | 0.9           | UL/CSA              | 9.95    | 8.95   | 7.95   | 7.29   |
| 105478   | ReliaPro     | DDU120100Z2993   | 12                         | 1000          | 2.5mm x 5.5mm F 2   | 3.1 x 2.4 x 2.0        | Black         | 6'                       | 1.0           | UL/CSA              | 9.95    | 8.95   | 7.95   | 7.29   |
| 15392    | ReliaPro     | DDU120100E7302   | 12                         | 1000          | 3.5mm M 2   | 3.3 x 2.4 x 2.0        | Black         | 6'                       | 1.0           | UL/CSA              | 9.95    | 8.95   | 7.95   | 7.29   |
| 196779   | ReliaPro     | DDU120120G0031   | 12                         | 1200          | 2.5mm x 5.5mm F 2   | 3.0 x 2.3 x 1.9        | Black         | 6'                       | 1.0           | UL/CUL              | 10.95   | 9.95   | 8.95   | 7.95   |
| 313226   | ReliaPro     | DFU120150H4490   | 12                         | 1500          | Stripped & tinned (w/ on-off switch)  | 3.4 x 2.6 x 2.2        | Black         | 8'                       | 1.5           | UL                  | 14.95   | 13.49  | 11.95  | 10.95  |
| 203036   | ReliaPro     | DDU120150H4530   | 12                         | 1500          | 2.1mm x 5.5mm F 1   | 3.3 x 2.2 x 1.9        | Black         | 6'                       | 1.5           | UL/CUL              | 14.95   | 13.49  | 11.95  | 10.95  |
| 136881   | ReliaPro     | DDU120150K1960   | 12                         | 1500          | 2.1mm x 5.5mm F 2   | 3.4 x 2.7 x 2.2        | Black         | 6'                       | 1.5           | UL                  | 14.95   | 13.49  | 11.95  | 10.95  |
| 1928151  | Leader       | 481215003CT      | 12                         | 1500          | 2.5mm x 5.5mm F 2   | 3.4 x 2.3 x 2.1        | Black         | 6'                       | 1.5           | UL/CUL              | 12.95   | 11.49  | 9.95   | 8.95   |
| 101291   | ReliaPro     | DDU120150        | 12                         | 1500          | 2.5mm x 5.5mm F 2   | 3.4 x 2.7 x 2.2        | Black         | 6'                       | 1.5           | UL/CUL              | 14.95   | 13.49  | 11.95  | 10.95  |
| 2077626  | Qualcomm     | TXACA036         | 13                         | 1000          | 2.5mm x 5.5mm F 2 (Switching)   | 2.7 x 2.4 x 1.6        | Black         | 6'6"                     | 0.6           | UL/CE               | 10.95   | 9.95   | 8.95   | 7.95   |
| 308099   | ReliaPro     | DDU135100H3210   | 13.5                       | 1000          | 2.1mm x 5.5mm F 2   | 2.9 x 2.3 x 1.9        | Black         | 6'                       | 1.0           | UL/CUL              | 10.95   | 9.95   | 8.95   | 7.95   |
| 212812   | ReliaPro     | DBU140020F6022   | 14                         | 200           | 2.1mm x 5.5mm F 2   | 2.2 x 1.7 x 1.5        | Black         | 6'                       | 0.8           | UL/CUL              | 6.95    | 6.25   | 5.59   | 4.95   |
| 212821   | ReliaPro     | DBU140030F6042   | 14                         | 300           | 2.1mm x 5.5mm F 2   | 2.2 x 1.7 x 1.5        | Black         | 6'                       | 0.8           | UL/CUL              | 7.95    | 7.29   | 6.59   | 5.95   |
| 129314   | Various      | DV-1250          | 14                         | 360           | 2.5mm x 5.5mm right angle F 2   | 2.3 x 2.0 x 1.6        | Black         | 6'                       | 0.6           | UL/CSA              | 6.95    | 5.95   | 4.95   | 3.95   |
| 123932   | ReliaPro     | DDU140070Z7470   | 14                         | 700           | 2.1mm x 5.5mm F 2   | 2.6 x 2.4 x 2.0        | Black         | 6'                       | 1.0           | UL/CSA              | 8.95    | 7.95   | 6.95   | 6.25   |
| 202260   | ReliaPro     | DDU140100F3270   | 14                         | 1000          | 2.1mm x 5.5mm F 2   | 3.9 x 2.9 x 2.4        | Black         | 6'                       | 0.9           | UL/CUL              | 9.95    | 8.95   | 7.95   | 6.95   |
| 190001   | ReliaPro     | DCU150050E3021   | 15                         | 500           | 2.1mm x 5.5mm F 2   | 2.3 x 2.4 x 1.9        | Black         | 6'                       | 0.8           | UL/CSA              | 7.95    | 7.29   | 6.59   | 5.95   |
| 189982   | ReliaPro     | DCU150050E3031   | 15                         | 500           | 2.5mm x 5.5mm F 2   | 2.3 x 2.4 x 1.9        | Black         | 6'                       | 0.8           | UL/CSA              | 7.95    | 7.29   | 6.59   | 5.95   |
| 155803   | ReliaPro     | DDU150060E5822   | 15                         | 600           | 2.1mm x 5.5mm F 1   | 2.9 x 2.3 x 1.9        | Black         | 6'                       | 1.0           | UL/CSA              | 8.95    | 7.95   | 7.29   | 6.49   |
| 203502   | ReliaPro     | DDU150090F4480   | 15                         | 900           | 2.5mm x 5.5mm F 2   | 2.6 x 2.2 x 1.9        | Black         | 6'                       | 1.0           | UL/CSA              | 9.95    | 8.95   | 7.95   | 7.29   |
| 151992   | ReliaPro     | DDU150100E8181   | 15                         | 1000          | 2.1mm x 5.5mm F 1   | 3.1 x 2.0 x 1.9        | Beige         | 6'                       | 1.5           | UL/CSA              | 8.95    | 7.95   | 6.95   | 5.95   |
| 191652   | ReliaPro     | DDU150100D7051   | 15                         | 1000          | 2.1mm x 5.5mm F 2   | 3.3 x 2.2 x 1.9        | Black         | 6'                       | 1.0           | UL/CSA              | 10.95   | 9.95   | 8.95   | 7.95   |
| 681563   | Ault         | P48151000A020G   | 15                         | 1000          | 2.5mm x 5.5mm F 2   | 3.3 x 2.3 x 1.9        | Black         | 6'                       | 1.2           | UL/CSA              | 9.95    | 8.95   | 7.95   | 6.95   |
| 162317   | ReliaPro     | DDU16050J19910   | 16                         | 500           | 2.1mm x 5.5mm F 2   | 2.5 x 2.0 x 1.7        | Black         | 6'                       | 0.8           | UL/CSA              | 9.95    | 8.95   | 7.95   | 7.29   |
| 217541   | NiteRider    | FE4116168C030    | 16.8                       | 300           | 2.5mm x 5.5mm F 2   | 3.1 x 2.1 x 1.6        | Black         | 6'                       | 0.6           | UL/CUL              | 6.95    | 6.25   | 5.59   | 4.95   |
| 2081713  | DVE          | DV-1790          | 17                         | 900           | 2.5mm x 5.5mm F 2   | 3.2 x 2.2 x 2.0        | Black         | 6'                       | 1.2           | UL/CSA              | 6.95    | 6.25   | 5.59   | 4.95   |
| 181729   | ReliaPro     | DCU180025F8680   | 18                         | 250           | 2.1mm x 5.5mm F 2   | 2.6 x 2.0 x 1.6        | Black         | 6'                       | 0.6           | UL                  | 6.95    | 6.25   | 5.59   | 4.95   |
| 217568   | NiteRider    | FE4126180P040    | 18                         | 400           | 2.5mm x 5.5mm F 2 (w/ LED indicator)  | 3.5 x 2.1 x 1.6        | Black         | 6'                       | 0.8           | UL/CUL              | 6.95    | 6.25   | 5.59   | 4.95   |
| 163272   | ReliaPro     | DDU180050C1031   | 18                         | 500           | 2.1mm x 5.5mm F 2   | 2.6 x 2.3 x 1.9        | Black         | 6'                       | 0.8           | UL/CUL              | 8.95    | 7.95   | 7.29   | 6.49   |
| 206958   | ReliaPro     | DDU180100H4551   | 18                         | 1000          | 2.5mm x 5.5mm F 2   | 3.3 x 2.2 x 1.9        | Black         | 6'                       | 1.4           | UL/CUL              | 9.95    | 8.95   | 7.95   | 7.29   |
| 102285   | ReliaPro     | DDU240040Z7860   | 24                         | 400           | 2.1mm x 5.5mm F 2   | 3.0 x 2.3 x 2.0        | Black         | 6'                       | 0.9           | UL/CUL              | 8.95    | 7.95   | 7.29   | 6.49   |
| 163635   | ReliaPro     | DDU240050C1981   | 24                         | 500           | 2.1mm x 5.5mm F 1   | 3.1 x 2.3 x 1.9        | Black         | 6'                       | 1.0           | UL/CUL              | 9.95    | 8.95   | 7.95   | 7.29   |
| 191556   | ReliaPro     | DDU240050E5852   | 24                         | 500           | 2.5mm x 5.5mm F 2   | 3.1 x 2.3 x 1.9        | Black         | 6'                       | 1.0           | UL/CUL              | 9.95    | 8.95   | 7.95   | 7.29   |
| 139088   | ReliaPro     | DDU240050E9160   | 24                         | 500           | 3.5mm M 2   | 3.1 x 2.3 x 1.9        | Black         | 6'                       | 1.0           | UL/CUL              | 9.95    | 8.95   | 7.95   | 7.29   |
| 1918930  | ReliaPro     | DDU240060L260    | 24                         | 600           | 2.1mm x 5.5mm F 2   | 2.9 x 2.2 x 1.9        | Black         | 6'                       | 0.4           | UL/CUL              | 10.95   | 9.95   | 8.95   | 7.95   |
| 168495   | ReliaPro     | DFU240080J3180   | 24                         | 800           | 2.1mm x 5.5mm F 2   | 2.9 x 1.9 x 1.6        | Black         | 6'                       | 0.4           | UL/CUL/TUV          | 11.95   | 10.95  | 9.95   | 8.95   |
| 220960   | ReliaPro     | DFU240100G2300   | 24                         | 1000          | 2.1mm x 5.5mm F 1   | 3.4 x 2.7 x 2.2        | Black         | 6'                       | 1.6           | UL/CUL              | 14.95   | 13.49  | 11.95  | 9.95   |
| 249121   | ReliaPro     | DFU240120/G8520  | 24                         | 1150          | 2.1mm x 5.5mm F 2   | 3.4 x 2.7 x 2.2        | Black         | 6'                       | 1.7           | UL/CUL              | 16.95   | 14.95  | 13.49  | 11.95  |
| 249113   | ReliaPro     | DFU240120/G8510  | 24                         | 1150          | 2.5mm x 5.5mm F 2   | 3.4 x 2.7 x 2.2        | Black         | 6'                       | 1.7           | UL/CUL              | 16.95   | 14.95  | 13.49  | 11.95  |
| 199523   | ReliaPro     | DDU300050E9340   | 30                         | 500           | 2.5mm x 5.5mm F 2   | 2.9 x 2.3 x 1.9        | Black         | 6'                       | 1.1           | UL/CUL              | 9.95    | 8.95   | 7.95   | 7.29   |
| 215095   | ReliaPro     | MW48-4800250     | 48                         | 250           | 2.5mm x 5.5mm F 2   | 2.9 x 2.3 x 1.9        | Black         | 6'                       | 1.1           | UL/CUL              | 8.95    | 7.95   | 7.29   | 6.49   |
| 230640   | ReliaPro     | MW57-4800500-2.1 | 48                         | 500           | 2.1mm x 5.5mm F 2   | 3.3 x 2.7 x 2.2        | Black         | 6'                       | 1.1           | —                   | 10.95   | 9.95   | 8.95   | 7.95   |
| 215109   | ReliaPro     | MW57-4800500     | 48                         | 500           | 2.5mm x 5.5mm F 2   | 3.3 x 2.7 x 2.2        | Black         | 6'                       | 1.1           | —                   | 9.95    | 8.95   | 7.95   | 6.95   |
| 15309    | ReliaPro     | 900-051          | 3, 4.5, 6, 7.5, 9, 12      | 500           | 1.3 x 3.5, 2.1 x 5.0, 2.5 x 5.5 Female<br>2.5, 3.5 Male, 9V battery snap (LED ind.) | 3.0 x 2.2 x 2.1        | Black         | 6'                       | 0.7           | UL/CSA              | 9.95    | 8.95   | 7.95   | 6.95   |
| 123158   | ReliaPro     | 900-100          | 1.5, 3, 4.5, 6, 7.5, 9, 12 | 1000          | 1.3 x 3.5, 2.1 x 5.0, 2.5 x 5.5 Female<br>2.5, 3.5 Male, 9V battery snap (LED ind.) | 3.7 x 2.2 x 2.5        | Black         | 6'                       | 0.9           | —                   | 10.95   | 9.95   | 8.95   | 7.95   |

◆ Blue Part No. = Limited Quantity Available

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| Part No.  | Manufacturer  | Product No.   | Output<br>Volts (VDC)/<br>Current (A) | Output Connector<br>ID x OD/F = female;<br>M = male; Polarity | Input<br>VAC@Hz | Output<br>Power<br>(W) | LED<br>Ind. | Size<br>(L" x W" x H") | Cords*<br>(DC/AC) | Wt.<br>(lbs.) | Agency<br>Approvals | Pricing         |         |        |        |
|---|---------------|---------------|---------------------------------------|---|-----------------|------------------------|-------------|------------------------|-------------------|---------------|---------------------|-----------------|---------|--------|--------|
|   |               |               |                                       |   |                 |                        |             |                        |                   |               |                     | 1               | 10      | 50     | 100    |
| 2-Wire AC Input – Unregulated Linear Table-Top                  |               |               |                                       |   |                 |                        |             |                        |                   |               |                     | ★ Web Code: TBE |         |        |        |
| 190051  | APS           | APS48EA114    | +7/1.5                                | 2.5mm x 5.5mm F 2   | 120@60          | 10                     | No          | 3.4 x 2.3 x 1.9        | 6'/6'             | 1.9           | UL/CUL              | \$6.95          | \$6.25  | \$4.95 | \$3.95 |
| 243109  | Regal         | JK-91001-N    | +9/1.0                                | Stripped & Tinned   | 120@60          | 9                      | No          | 3.3 x 2.2 x 1.9        | 6'/6'             | 1.2           | UL/CSA              | 6.95            | 6.25    | 4.95   | 3.95   |
| 2081941   | Toshiba       | AD-121ADT     | +12/1.0                               | 2.1mm x 5.5mm F 2   | 120@60          | 12                     | No          | 3.2 x 2.2 x 1.9        | 6'/6'             | 1.3           | UL/CUL              | 7.95            | 6.95    | 6.25   | 5.59   |
| 140880  | ReliaPro      | DC1215ST      | +12/1.5                               | Stripped & Tinned   | 120@60          | 18                     | No          | 3.1 x 2.1 x 1.9        | 6'/6'             | 1.5           | UL                  | 11.95           | 10.95   | 9.95   | 8.95   |
| 143714  | Horizon+      | DC1220F1      | +12/2.0                               | 2.1mm x 5.5mm F 2   | 120@60          | 24                     | No          | 3.8 x 2.8 x 2.3        | 6'/6'             | 2.2           | CUL                 | 13.95           | 12.49   | 10.95  | 9.95   |
| 143722  | ReliaPro      | DC1220F5      | +12/2.0                               | 2.5mm x 5.5mm F 2   | 120@60          | 24                     | No          | 3.8 x 2.8 x 2.3        | 6'/6'             | 2.2           | UL/CUL              | 14.95           | 13.49   | 11.95  | 10.95  |
| 143731  | ReliaPro      | DC1220M3      | +12/2.0                               | 3.5mm M 2   | 120@60          | 24                     | No          | 3.8 x 2.8 x 2.3        | 6'/6'             | 1.9           | UL/CUL              | 14.95           | 13.49   | 11.95  | 10.95  |
| 139096  | ReliaPro      | DC2412F1      | +24/1.2                               | 2.1mm x 5.5mm F 2   | 120@60          | 29                     | No          | 4.4 x 3.1 x 2.6        | 6'/6'             | 2.5           | —                   | 14.95           | 13.49   | 11.95  | 10.95  |
| 1953815   | SR Components | DC24-1.2      | +24/1.2                               | 2.1mm x 5.5mm F 2   | 120@60          | 29                     | No          | 4.5 x 3.4 x 2.6        | 5'/6"             | 0.7           | UL                  | 12.95           | 11.95   | 10.49  | 8.95   |
| 173665  | Skynet        | DND-3005      | +30/0.5                               | 2.5mm x 5.5mm F 2   | 120@60          | 15                     | No          | 3.0 x 2.5 x 2.2        | 5'9"/3'2"         | 1.4           | UL/CUL              | 6.95            | 6.25    | 5.95   | 4.95   |
| 2-Wire AC Input – Regulated Linear Table-Top                    |               |               |                                       |   |                 |                        |             |                        |                   |               |                     | ★ Web Code: CEM |         |        |        |
| 664261  | Intermec      | 062035        | +5/0.75                               | 4-pin DIN M   | 120@60          | 3.75                   | No          | 4.4 x 2.5 x 2.0        | 6'/6'             | 1.6           | UL/CSA              | \$8.95          | \$7.95  | \$6.95 | \$6.25 |
| 2099569   | JEC           | 57-1607-U4D   | +16/0.7                               | 2.5mm x 5.5mm F 2   | 120@60          | 19                     | No          | 3.6 x 2.7 x 3.6        | 6'/6'             | 1.3           | UL                  | 8.95            | 7.95    | 6.95   | 6.25   |
| 174845  | ReliaPro      | DCR2410F12    | +24/1                                 | 2.1mm x 5.5mm F 2   | 120@60          | 24                     | No          | 4.4 x 3.0 x 2.5        | 6'/6'             | 2.6           | UL                  | 17.95           | 15.95   | 14.49  | 12.95  |
| 2-Wire AC Input – Regulated Switching Table-Top – Single Output |               |               |                                       |   |                 |                        |             |                        |                   |               |                     | ★ Web Code: DDZ |         |        |        |
| 153752  | Cisco         | 34-0912-02    | +5/2.5                                | 2.5mm x 5.5mm F 2   | 100-240@50-60   | 13                     | No          | 3.5 x 2.2 x 1.2        | 6'/1              | 0.5           | UL/CUL/TUV/CE       | \$11.95         | \$10.49 | \$8.95 | \$7.95 |
| 1586242   | Phihong       | PSAA15W-050-R | +5/3.0                                | 2.1mm x 5.5mm F 2   | 100-240@50-60   | 15                     | No          | 3.2 x 2.0 x 1.2        | 6'/1              | —             | UL/CUL/TUV/CE       | 15.95           | 14.49   | 12.95  | 11.49  |
| 1940299   | Mean Well     | GS18B05-P1J   | +5/3.0                                | 2.1mm x 5.5mm F 2   | 100-240@50-60   | 18                     | Yes         | 3.1 x 2.1 x 1.3        | 4'/1              | 0.5           | UL/CSA/TUV/CEC      | 15.95           | 14.49   | 13.49  | 12.49  |
| 155205  | ITE Power     | SYS1102-2005  | +5/4.0                                | 2.1mm x 5.5mm F 2   | 100-240@50-60   | 20                     | Yes         | 4.0 x 2.0 x 1.3        | 3'6"/1            | 0.7           | UL/CUL/TUV/CE       | 13.95           | 11.95   | 9.95   | 8.95   |
| 1940483   | Mean Well     | GS25B05-P1J   | +5/4.0                                | 2.1mm x 5.5mm F 2   | 100-240@50-60   | 20                     | Yes         | 3.1 x 2.1 x 1.3        | 4'/1              | 0.5           | UL/CSA/TUV/CEC      | 16.49           | 14.95   | 13.95  | 12.95  |
| 377925  | Mean Well     | P30B-1P2JU    | +5/4.0                                | 2.1mm x 5.5mm F 2   | 90-264@47-63    | 20                     | Yes         | 4.3 x 2.6 x 1.4        | 6'/6'             | 0.7           | UL/CSA/TUV/CE       | 21.95           | 19.95   | 18.95  | 17.95  |
| 380621  | Mean Well     | ES25B05-P1MU  | +5/4.0                                | 2.5mm x 5.5mm F 2   | 90-264@47-63    | 20                     | Yes         | 3.1 x 2.1 x 1.3        | 6'/6'             | 0.5           | UL/CSA/TUV/CE       | 18.95           | 16.95   | 15.49  | 14.49  |
| 1940301   | Mean Well     | GS18B07-P1J   | +7.5/2.0                              | 2.1mm x 5.5mm F 2   | 100-240@50-60   | 18                     | Yes         | 3.1 x 2.1 x 1.3        | 6'/1              | 0.5           | UL/CSA/TUV/CEC      | 15.95           | 14.49   | 13.49  | 12.49  |
| 1707067   | Mean Well     | ES25B07-P1J   | +7.5/2.93                             | 2.1mm x 5.5mm F 2   | 100-240@50-60   | 22                     | Yes         | 3.1 x 2.1 x 1.3        | 6'/1              | 0.4           | UL/CUL/TUV/CE       | 10.95           | 9.49    | 8.49   | 7.49   |
| 195806  | ReliaPro      | DCR920F12     | +9/2.0                                | 2.1mm x 5.5mm F 2   | 100-240@50-60   | 18                     | Yes         | 4.2 x 2.6 x 1.4        | 6'/6'             | 0.9           | UL/CUL/TUV/CE       | 21.95           | 19.95   | 18.95  | 17.95  |
| 1940310   | Mean Well     | GS18B09-P1J   | +9/2.0                                | 2.1mm x 5.5mm F 2   | 90-264@47-63    | 18                     | Yes         | 3.1 x 2.1 x 1.3        | 6'/1              | 0.5           | UL/CUL/TUV/CE       | 15.95           | 14.49   | 13.49  | 12.49  |
| 195768  | ReliaPro      | DCR920F52     | +9/2.0                                | 2.5mm x 5.5mm F 2   | 100-240@50-60   | 18                     | Yes         | 4.3 x 2.6 x 1.4        | 6'/6'             | 0.9           | UL/CUL/TUV/CE       | 21.95           | 19.95   | 18.95  | 17.95  |
| 380681  | Mean Well     | ES25B09-P1MU  | +9/2.78                               | 2.5mm x 5.5mm F 2   | 90-264@47-63    | 25                     | Yes         | 3.1 x 2.1 x 1.3        | 6'/6'             | 0.5           | UL/CSA/TUV/CE       | 18.95           | 16.95   | 15.49  | 14.49  |
| 379787  | Mean Well     | P30B-2P2MU    | +9/2.89                               | 2.5mm x 5.5mm F 2   | 90-264@47-63    | 26                     | Yes         | 4.3 x 2.6 x 1.4        | 6'/6'             | 0.7           | UL/CSA/TUV/CE       | 19.95           | 18.95   | 17.95  | 16.95  |
| 1940213   | EDAC, Inc.    | EA10302       | +9/3.3                                | 2.1mm x 5.5mm F 2   | 100-240@50-60   | 30                     | Yes         | 3.9 x 1.8 x 1.2        | 4'/1              | 0.5           | UL/CUL/TUV/CE       | 14.95           | 13.49   | 11.95  | 10.95  |
| 1950905   | APS           | AD715U-1121   | +12/1.2                               | 2.5mm x 5.5mm F 2   | 100-240@50-60   | 15                     | No          | 3.7 x 2.1 x 1.3        | 6'/1              | 0.5           | UL/CUL/TUV/CE       | 11.95           | 10.95   | 9.95   | 8.95   |
| 191353  | Delta         | ADP-15FB      | +12/1.25                              | 2.1mm x 5.5mm F 2   | 100-240@50-60   | 15                     | No          | 3.5 x 2.3 x 1.2        | 6'/1              | 0.5           | UL/CE               | 12.95           | 11.49   | 9.95   | 8.95   |
| 1940328   | Mean Well     | GS18B12-P1J   | +12/1.5                               | 2.1mm x 5.5mm F 2   | 100-240@50-60   | 18                     | No          | 3.1 x 2.1 x 1.3        | 6'/6'             | 0.5           | UL/CSA/CE/CEC       | 15.95           | 14.49   | 13.49  | 12.49  |
| 2099868   | DVE           | DSA-0421S     | +12/2.0                               | 2.1mm x 5.5mm F 2   | 100-240@50-60   | 24                     | Yes         | 3.7 x 2.2 x 1.3        | 6'/6'             | 0.4           | UL/CUL/TUV/CE       | 19.95           | 17.95   | 15.95  | 13.95  |
| 1537555   | APD           | DA-24B12      | +12/2.0                               | 2.5mm x 5.5mm F 2   | 100-240@47-63   | 24                     | No          | 3.6 x 2.2 x 1.3        | 6'/1              | 0.4           | UL/CUL/TUV/CE       | 19.95           | 17.95   | 15.95  | 13.95  |
| 1942155   | Jentec        | JTA0210P      | +12/3.0                               | 2.1mm x 5.5mm F 2   | 100-240@50-60   | 36                     | Yes         | 4.3 x 2.0 x 1.2        | 4'/1              | 0.6           | UL/CUL/TUV/CE       | 15.95           | 13.95   | 11.95  | 10.95  |
| 401042  | ReliaPro      | ADPV16        | +12/3.0                               | 2.1mm x 5.5mm F 2   | 100-240@50-60   | 36                     | No          | 3.9 x 1.8 x 1.2        | 4'/1              | 0.5           | UL/CUL/TUV/CE       | 22.95           | 20.49   | 18.95  | 16.95  |
| 220442  | ReliaPro      | SL120300RT    | +12/3.0                               | 2.5mm x 5.5mm F 2   | 100-240@50-60   | 36                     | Yes         | 4.3 x 2.0 x 1.2        | 6'/1              | 0.6           | UL/CUL/TUV/CE       | 24.95           | 22.49   | 19.95  | 17.95  |
| 2099876   | Lishin Int.   | LSE9802A 1240 | +12/3.33                              | 2.1mm x 5.5mm F 2   | 100-240@50-60   | 40                     | Yes         | 3.7 x 2.2 x 1.3        | 5'/6"             | 0.4           | UL/CSA/TUV/CE       | 22.95           | 20.49   | 18.95  | 16.95  |
| 1940336   | Mean Well     | GS18B15-P1JT  | +15V/1.2                              | 2.1mm x 5.5mm F 2   | 100-240@50-60   | 18                     | No          | 3.1 x 2.1 x 1.3        | 6'/6'             | 0.5           | UL/CSA/CEC          | 15.95           | 14.49   | 13.49  | 12.49  |
| 1537070   | Phihong       | PSA15W-150R   | +15/1.25                              | 2.5mm x 5.5mm F 2   | 100-240@47-63   | 15                     | No          | 4.3 x 2.6 x 1.0        | 6'/1              | 0.8           | UL/CUL/TUV/CE       | 17.95           | 16.49   | 14.95  | 13.49  |
| 1940521   | Mean Well     | GS25B15-P1JT  | +15/1.66                              | 2.1mm x 5.5mm F 2   | 100-240@50-60   | 25                     | No          | 3.1 x 2.1 x 1.3        | 6'/6'             | 0.5           | UL/CSA/CEC          | 18.95           | 16.95   | 14.95  | 13.49  |
| 1940539   | Mean Well     | GS25B18-P1J   | +18/1.38                              | 2.1mm x 5.5mm F 2   | 100-240@50-60   | 25                     | Yes         | 3.1 x 2.1 x 1.3        | 6'/1              | 0.5           | UL/CSA/TUV/CEC      | 18.95           | 16.95   | 14.95  | 13.49  |
| 1940352   | Mean Well     | GS18B24-P1J   | +24/0.75                              | 2.1mm x 5.5mm F 2   | 100-240@50-60   | 18                     | Yes         | 3.1 x 2.1 x 1.3        | 6'/1              | 0.5           | UL/CSA/TUV/CEC      | 15.95           | 14.49   | 13.49  | 12.49  |
| 1940547   | Mean Well     | GS25B24-P1JT  | +24/1.04                              | 2.1mm x 5.5mm F 2   | 100-240@50-60   | 25                     | Yes         | 3.1 x 2.1 x 1.3        | 6'/1              | 0.5           | UL/CSA/TUV/CEC      | 16.49           | 14.95   | 13.49  | 12.49  |
| 221613  | Mean Well     | P30B-6P2JT    | +24/1.12                              | 2.1mm x 5.5mm F 2   | 100-240@50-60   | 27                     | Yes         | 4.3 x 2.6 x 1.4        | 6'/6'             | 0.8           | UL/CUL/TUV/CE       | 26.95           | 24.95   | 22.95  | 20.49  |
| 1940230   | EDAC, Inc.    | EA1030D2      | +24/1.25                              | 2.1mm x 5.5mm F 2   | 100-240@50-60   | 30                     | Yes         | 3.9 x 1.8 x 1.2        | 4'/1              | 0.5           | UL/CUL/TUV/CE       | 19.95           | 17.95   | 15.95  | 13.95  |
| 229843  | Phihong       | PSAA60W-240   | +24/2.5                               | 2.1mm x 5.5mm F 2   | 100-240@47-63   | 60                     | No          | 5.1 x 2.4 x 1.3        | 4'/1              | 0.5           | UL/CSA/CEC          | 36.95           | 33.95   | 31.95  | 28.95  |
| 1707075   | Mean Well     | ES18B28-P1J   | +28/0.64                              | 2.1mm x 5.5mm F 2   | 100-240@50-60   | 18                     | Yes         | 3.1 x 2.1 x 1.3        | 6'/1              | 0.5           | UL/CUL/TUV/CE       | 8.95            | 7.95    | 6.95   | 5.95   |
| 205911  | Delta         | ADP-25HB      | +30/0.83                              | 2.1mm x 5.5mm F 2   | 100-125@50-60   | 25                     | No          | 3.5 x 2.4 x 1.2        | 6'/7"             | 1.1           | UL/CUL              | 12.95           | 11.49   | 9.95   | 8.95   |

\* See accessory table-top power cord chart on page 129 when AC cord needed; refer to 1, 2 or 3 in "Cord (DC/AC)" column above for correct power cord

† Right Angle

✓ CEC Equivalent available. Add a "C" before part number for CEC version. 🌱 CEC

3-Wire Regulated Table-Top Power Supplies on Next Page

🌱 RoHS compliant product

+ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 197.



# AC-to-DC Regulated Switching Table-Top Power Supplies

## AC-to-DC Regulated Linear & Switching Table-Top Power Supplies

We are happy to change the power plug on any listed table-top power supply to a connector of your choice (see pg 130) for just \$2.50 each. A 100 pc. minimum order applies.

See page 134 for  
International Power Cords

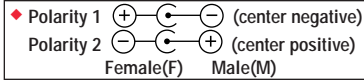
689661

309876

221488

1950884

1586146



| Part No.  | Manufacturer  | Manufacturer Part No. | Output                         | Output Connector                    | Input         | Output | LED | Size            | Cords* | Wt. | Agency            | Pricing        |         |                |         |
|---|---------------|-----------------------|--------------------------------|-------------------------------------|---------------|--------|-----|-----------------|--------|-----|-------------------|----------------|---------|----------------|---------|
|   |               |                       | Volts (VDC)/<br>Current (A)    | ID x OD mm<br>Female/Male; Polarity |               | VAC@Hz |     |                 |        |     |                   | Power (W)      | Ind.    | (L" x W" x H") | (DC/AC) |
| 2-Wire AC Input – Regulated Switching Table-Top – Single Output (Continued) |               |                       |                                |                                     |               |        |     |                 |        |     |                   | *Web Code: DDZ |         |                |         |
| 1940379   | Mean Well     | GS18B48-P1JT          | +48/0.37                       | 2.1mm x 5.5mm F 2                   | 100-240@50-60 | 18     | No  | 3.1 x 2.1 x 1.3 | 6'/6'  | 0.5 | UL/CSA/CEC        | \$15.95        | \$14.49 | \$13.49        | \$12.49 |
| 1707139   | Mean Well     | ES25B48-P1J           | +48/0.52                       | 2.1mm x 5.5mm F 2                   | 100-240@50-60 | 25     | Yes | 3.1 x 2.1 x 1.3 | 6'/1'  | 0.4 | UL/CUL/TUV/CE     | 19.95          | 17.95   | 15.95          | 14.49   |
| 380809  | Mean Well     | ES25B48-P1MU          | +48/0.52                       | 2.5mm x 5.5mm F 2                   | 90-264@47-63  | 25     | Yes | 3.1 x 2.1 x 1.3 | 6'/6'  | 0.5 | UL/CSA/TUV/CE     | 18.49          | 16.49   | 14.49          | 12.95   |
| 2-Wire AC Input – Regulated Switching Table-Top – Triple Output             |               |                       |                                |                                     |               |        |     |                 |        |     |                   | *Web Code: DDZ |         |                |         |
| 196138  | DVE           | DSA-0283A             | +5/1, +12/1.49/-5/0.43         | 5-pin DIN M                         | 100-240@47-63 | 23     | No  | 4.9 x 2.7 x 1.5 | 6'/1'  | 0.8 | UL/CSA/TUV        | \$7.95         | \$6.95  | \$5.95         | \$4.95  |
| 3-Wire AC Input – Regulated Linear Table-Top – Double & Quad Output         |               |                       |                                |                                     |               |        |     |                 |        |     |                   | *Web Code: CEM |         |                |         |
| 689661  | Regal         | R1JG-5500             | +5/1; -5/0.5                   | 5-pin DIN M                         | 120@60        | 30     | No  | 5.1 x 3.6 x 2.8 | 6'/6'  | 2.7 | UL                | \$9.95         | \$8.95  | \$7.95         | \$6.95  |
| 689653  | Regal         | RJM-551228            | +5/0.9; -5/0.2; +12/62; -28/16 | 6-pin DIN M                         | 120@60        | 55     | No  | 5.1 x 3.6 x 2.8 | 6'/6'  | 1.3 | CUL               | 11.95          | 10.49   | 9.49           | 8.49    |
| 3-Wire AC Input – Regulated Switching Table-Top – Single Output             |               |                       |                                |                                     |               |        |     |                 |        |     |                   | *Web Code: DDZ |         |                |         |
| 1928863   | DVE           | DSA0210D-03           | +3.3/4.0                       | 2.5mm x 5.5mm F 2                   | 100-240@50-60 | 13     | No  | 3.9 x 2.0 x 1.4 | 4'/2'  | 0.5 | UL/CUL/TUV/CE     | \$12.95        | \$10.95 | \$9.49         | \$8.49  |
| 2115549   | Sino-American | 217-03814             | +5/0.5                         | 2.1mm x 5.5mm F 2                   | 100-240@50-60 | 2.5    | No  | 3.1 x 2.0 x 1.2 | 6'/2'  | 0.4 | UL/CSA            | 8.95           | 7.95    | 6.95           | 5.95    |
| 308700  | Be-Well       | ZD0001F               | +5/1.0                         | 2.1mm x 5.5mm F 2                   | 100-240@50-60 | 5      | No  | 4.2 x 2.0 x 1.6 | 6'/2'  | 0.4 | UL/CUL/TUV/CE     | 9.95           | 8.95    | 7.95           | 6.95    |
| 1918737   | Magtech       | SPU15A-102            | +5/1.0                         | 2.5mm x 5.5mm F 2                   | 100-240@47-63 | 5      | Yes | 3.6 x 1.5 x 1.4 | 6'/2'  | 0.4 | UL/CUL/TUV/CE     | 9.95           | 8.95    | 7.95           | 6.95    |
| 1952169   | Go Forward    | 91-58414              | +5/2.0                         | 1.3mm x 3.5mm F 2                   | 100-240@50-60 | 10     | No  | 2.6 x 1.9 x 1.3 | 6'/2'  | 0.4 | UL/CUL/TUV/CE     | 9.95           | 8.95    | 7.95           | 6.95    |
| 309876  | Go Forward    | GI12-USO520           | +5/2.0                         | 2.1mm x 5.5mm F 2                   | 100-240@50-60 | 10     | No  | 2.6 x 1.9 x 1.3 | 6'/2'  | 0.4 | UL/CUL/TUV/CE     | 10.95          | 9.95    | 8.95           | 7.95    |
| 196218  | GlobTek       | GT-21089-1305T3       | +5/2.0                         | 2.1mm x 5.5mm F 2                   | 120-240@50-60 | 10     | No  | 3.4 x 1.9 x 1.3 | 6'/2'  | 0.4 | UL/CUL/TUV/CE     | 15.95          | 14.49   | 12.95          | 11.95   |
| 1955642   | Delta         | ADP-105B              | +5/2.0                         | 2.1mm x 5.5mm F 2                   | 100-240@50-60 | 10     | No  | 3.3 x 1.9 x 1.2 | 6'/2'  | 0.3 | UL/CUL/CE         | 10.95          | 9.95    | 8.95           | 7.95    |
| 1954236   | Mean Well     | GS15A-1P1J            | +5/2.4                         | 2.1mm x 5.5mm F 2                   | 90-264@47-63  | 12     | No  | 3.9 x 2.3 x 1.3 | 6'/2'  | 0.4 | UL/CUL/TUV/CEC    | 17.95          | 15.95   | 14.49          | 13.49   |
| 2115506   | OEM           | SYS1089-1305-T3       | +5/2.6                         | 2.1mm x 5.5mm F 2                   | 100-240@50-60 | 13     | No  | 3.4 x 1.8 x 1.3 | 6'/2'  | 0.3 | UL/CUL/CE         | 12.95          | 11.49   | 9.95           | 8.95    |
| 695244  | DVE           | DSA-0151D-05          | +5/2.4                         | 2.5mm x 5.5mm F 2                   | 100-240@47-63 | 10     | No  | 3.9 x 2.0 x 1.4 | 6'/2'  | 0.5 | UL/CUL/TUV/CE     | 14.95          | 13.49   | 11.95          | 9.95    |
| 1940387   | Mean Well     | GS18A05-P1J           | +5/3.0                         | 2.1mm x 5.5mm F 2                   | 100-240@50-60 | 15     | Yes | 3.7 x 2.1 x 1.4 | 4'/2'  | 0.5 | UL/CUL/TUV/CE/CEC | 18.49          | 16.49   | 14.49          | 12.95   |
| 1940571   | Mean Well     | GS25A05-P1J           | +5/4.0                         | 2.1mm x 5.5mm F 2                   | 100-240@50-60 | 20     | Yes | 3.7 x 2.1 x 1.4 | 4'/2'  | 0.5 | UL/CUL/TUV/CEC    | 19.95          | 18.95   | 16.49          | 14.95   |
| 1952337   | Mean Well     | GS40A05-P1JU          | +5/5.0                         | 2.1mm x 5.5mm F 2                   | 90-264@47-63  | 25     | Yes | 4.9 x 2.0 x 1.2 | 4'/2'  | 0.7 | UL/CSA/TUV/CEC    | 34.95          | 31.49   | 27.95          | 24.95   |
| 320081  | GlobTek       | TR9CA6000LCP-Y        | +5/6.0                         | 2.5mm x 5.5mm F 2                   | 100-240@50-60 | 30     | Yes | 4.7 x 2.4 x 1.3 | 6'/2'  | 0.7 | UL/CUL/TUV/CE     | 39.95          | 35.95   | 31.95          | 28.95   |
| 221488  | Mean Well     | SPU50-1U              | +5/10.0                        | 5-pin DIN M                         | 100-240@50-60 | 50     | Yes | 5.7 x 3.0 x 1.7 | 6'/6'  | 2.0 | UL/CUL/TUV/CE     | 54.95          | 49.95   | 46.95          | 43.95   |
| 379751  | Mean Well     | P30A-1-P2MU           | +7.5/3.06                      | 2.5mm x 5.5mm F 2                   | 90-264@47-63  | 23     | Yes | 4.3 x 2.6 x 1.4 | 6'/6'  | 0.7 | UL/CSA/TUV/CE     | 21.95          | 19.95   | 18.95          | 17.95   |
| 206529  | Mean Well     | GS40A07-P1J           | +7.5/5.34                      | 2.1mm x 5.5mm F 2                   | 100-240@50-60 | 40     | Yes | 4.9 x 2.0 x 1.3 | 6'/6'  | 1.5 | UL/CUL/TUV/CE     | 27.95          | 25.95   | 24.49          | 22.95   |
| 1940408   | Mean Well     | GS18A09-P1JU          | +9/2.0                         | 2.1mm x 5.5mm F 2                   | 100-240@50-60 | 18     | Yes | 3.7 x 2.1 x 1.4 | 6'/6'  | 0.6 | UL/CUL/TUV/CEC    | 18.49          | 16.49   | 14.49          | 12.95   |
| 211027  | Mean Well     | KA52B25-MODU          | +9/2.78                        | 2.1mm x 5.5mm F 2                   | 100-240@47-63 | 25     | No  | 4.2 x 2.6 x 1.5 | 6'/2'  | 0.9 | CSA/TUV/CE        | 11.95          | 9.95    | 8.95           | 7.95    |
| 1952361   | Mean Well     | GS60A09-P1J           | +9/6.0                         | 2.1mm x 5.5mm F 2                   | 90-264@47-63  | 54     | Yes | 4.9 x 2.0 x 1.3 | 4'/2'  | 0.7 | UL/CUL/TUV/CEC    | 28.95          | 26.95   | 24.95          | 22.95   |
| 1955651   | ELPAC         | W0812                 | +12/0.67                       | 2.5mm x 5.5mm F 2                   | 100-240@47-63 | 8      | No  | 3.3 x 1.9 x 1.2 | 6'/6'  | 0.8 | UL/CUL/TUV/CE     | 10.95          | 9.95    | 8.95           | 7.95    |
| 1928417   | Mean Well     | GI12-US1210           | +12/1.0                        | 2.1mm x 5.5mm F 2                   | 100-240@50-60 | 12     | No  | 2.9 x 1.9 x 1.3 | 6'/2'  | 0.3 | UL/CSA/TUV/CE     | 14.95          | 13.49   | 11.95          | 10.95   |
| 1954244   | Mean Well     | GS15A-3P1J            | +12/1.25                       | 2.1mm x 5.5mm F 2                   | 90-264@47-63  | 15     | No  | 3.9 x 2.3 x 1.3 | 6'/2'  | 0.4 | UL/CUL/TUV/CEC    | 17.95          | 15.95   | 14.49          | 12.95   |
| 1940416   | Mean Well     | GS18A12-P1JU          | +12/1.5                        | 2.1mm x 5.5mm F 2                   | 100-240@50-60 | 18     | Yes | 3.7 x 2.1 x 1.4 | 6'/6'  | 0.5 | UL/CUL/TUV/CEC    | 18.49          | 16.49   | 14.49          | 12.95   |
| 616216  | Sinotech      | MPC1200150            | +12/1.5                        | 2.5mm x 5.5mm F 1                   | 100-240@50-60 | 18     | No  | 3.4 x 2.2 x 1.3 | 6'/2'  | 0.5 | UL/CUL/CE/CEC     | 15.95          | 13.95   | 12.49          | 10.95   |
| 1928425   | ITE           | NL20-120160-11        | +12/1.6                        | 2.1mm x 5.5mm F 2                   | 100-240@50-60 | 19     | Yes | 4.3 x 1.8 x 1.2 | 6'/2'  | 0.2 | UL/CSA/TUV/CE     | 13.95          | 12.49   | 10.95          | 9.95    |
| 1537432   | Eng Electric  | EPA-201D-12           | +12/1.66                       | 2.1mm x 5.5mm F 2                   | 100-240@50-60 | 20     | Yes | 4.3 x 2.4 x 1.3 | 6'/2'  | 0.2 | UL/CSA/TUV/CE     | 13.95          | 12.49   | 10.95          | 9.95    |
| 379779  | Mean Well     | ES25A12-P1JU          | +12/2.08                       | 2.1mm x 5.5mm F 2                   | 100-240@50-60 | 25     | Yes | 3.7 x 2.1 x 1.4 | 6'/6'  | 0.6 | UL/CSA/TUV/CE     | 17.95          | 15.95   | 13.95          | 12.49   |
| 1940601   | Mean Well     | GS25A12-P1JU          | +12/2.08                       | 2.1mm x 5.5mm F 2                   | 100-240@50-60 | 25     | Yes | 3.7 x 2.1 x 1.4 | 4'/6'  | 0.5 | UL/CUL/TUV/CEC    | 18.95          | 16.95   | 14.95          | 13.49   |
| 380534  | Mean Well     | ES25A12-P1MU          | +12/2.08                       | 2.5mm x 5.5mm F 2                   | 100-240@50-60 | 25     | Yes | 3.7 x 2.1 x 1.4 | 6'/6'  | 0.6 | UL/CSA/TUV/CE     | 19.95          | 17.95   | 15.95          | 13.95   |
| 1950884   | APS           | AD725U-1120A          | +12/2.1                        | 2.1mm x 5.5mm F 2                   | 100-240@50-60 | 25     | No  | 3.8 x 2.1 x 1.3 | 6'/2'  | 0.5 | UL/CUL/TUV/CE     | 14.95          | 13.49   | 11.95          | 10.95   |
| 1918690   | First Vision  | SA06H12-A             | +12/2.5                        | 2.5mm x 5.5mm F 2                   | 100-240@50-60 | 30     | Yes | 3.7 x 2.0 x 1.4 | 4'/2'  | 0.6 | UL/CUL/TUV/CE     | 10.95          | 9.95    | 8.95           | 7.95    |
| 1942147   | Jentec        | SA06H1217-A           | +12/2.5                        | 2.5mm x 5.5mm F 2                   | 100-240@50-60 | 30     | Yes | 3.7 x 2.0 x 1.4 | 6'/2'  | 0.6 | UL/CUL/TUV/CE     | 12.95          | 10.95   | 9.95           | 8.95    |
| 1586146   | EDAC, Inc.    | EA10301               | +12/3.0                        | 2.5mm x 5.5mm F 2                   | 100-240@50-60 | 36     | Yes | 3.8 x 1.8 x 1.2 | 6'/2'  | 0.7 | UL/CUL/TUV/CE     | 14.95          | 13.49   | 11.95          | 10.95   |
| 155214  | Mean Well     | P40A-3P2JU            | +12/3.33                       | 2.1mm x 5.5mm F 2                   | 100-240@50-60 | 40     | Yes | 4.3 x 2.6 x 1.4 | 6'/6'  | 0.7 | UL/CUL/TUV        | 39.95          | 35.95   | 32.95          | 29.95   |
| 1708625   | HiPro         | HP02040043            | +12/3.33                       | 2.5mm x 5.5mm F 2                   | 100-240@50-60 | 40     | Yes | 4.3 x 2.4 x 1.2 | 5'/2'  | 0.7 | UL/CUL/TUV/CE/CEC | 17.95          | 15.95   | 13.95          | 12.49   |
| 297693  | Mean Well     | P40A-3P2MU-R          | +12/3.33                       | 2.5mm x 5.5mm F 2                   | 100-240@50-60 | 40     | Yes | 4.3 x 2.6 x 1.4 | 6'/6'  | 0.7 | UL/CUL/TUV/CE     | 31.95          | 29.95   | 27.95          | 25.95   |
| 1952345   | Mean Well     | GS40A12-P1J           | +12/3.4                        | 2.1mm x 5.5mm F 2                   | 90-264@47-63  | 40     | Yes | 4.9 x 2.0 x 1.3 | 4'/2'  | 0.7 | UL/CUL/TUV/CEC    | 22.95          | 20.95   | 18.95          | 17.49   |
| 1940264   | EDAC, Inc.    | EA1050E               | +12/3.5                        | 2.1mm x 5.5mm F 2                   | 100-240@50-60 | 42     | Yes | 4.7 x 2.4 x 1.4 | 4'/2'  | 0.6 | UL/CUL/TUV/CE     | 22.95          | 20.95   | 18.95          | 17.49   |
| 1940272   | EDAC, Inc.    | EA1050C               | +12/4.16                       | 2.1mm x 5.5mm F 2                   | 100-240@50-60 | 50     | Yes | 4.7 x 2.4 x 1.4 | 4'/2'  | 0.6 | UL/CUL/TUV/CE     | 26.95          | 24.95   | 22.95          | 20.95   |

\* See accessory table-top power cord chart on page 129 when AC cord needed; refer to 1, 2 or 3 in "Cord (DC/AC)" column above for correct power cord † Right angle

✓ CEC Equivalent available

3-Wire Regulated Table-Top Power Supplies continued on next page

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

# AC-to-DC Regulated Switching Table-Top Power Supplies

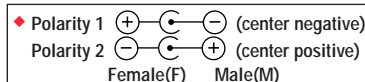
| 3 LEVELS OF SAVINGS |              |                 |
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| NAME BRANDS         | HOUSE BRANDS | FACTORY OVERRUN |

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## AC-to-DC Regulated Switching Table-Top Power Supplies (Continued)

We are happy to change the power plug on any listed table-top power supply to a connector of your choice (see pg 130) for just \$2.50 each. A 100 pc. minimum order applies.

See page 134 for International Power Cords



| Part No.  | Manufacturer  | Manufacturer Part No. | Output Volts (VDC)/ Current (A) | Output Connector ID x OD mm Female/Male; Polarity | Input VAC@Hz         | Output Power (W) | LED Ind. | Size (L" x W" x H") | Cords* (DC/AC) | Wt. (lbs.) | Agency Approvals  | Pricing         |         |         |         |
|---|---------------|-----------------------|---------------------------------|---|----------------------|------------------|----------|---------------------|----------------|------------|-------------------|-----------------|---------|---------|---------|
|   |               |                       |                                 |   |                      |                  |          |                     |                |            |                   | 1               | 10      | 50      | 100     |
| 3-Wire AC Input – Regulated Switching Table-Top – Single Output (Continued) |               |                       |                                 |   |                      |                  |          |                     |                |            |                   | * Web Code: DDZ |         |         |         |
| 2100216   | BESTEC        | BPA-501-12            | +12/4.2                         | 2.5mm x 5.5mm F 2                                 | 100-240@50-60        | 50               | Yes      | 6.5 x 2.8 x 1.8     | 5' 1/2         | 0.7        | UL/CSA/TUV        | \$34.95         | \$31.49 | \$27.95 | \$24.95 |
| 1586314   | Phihong       | PSC60M-120-R          | +12/5.0                         | 2.1mm x 5.5mm F 2                                 | 100-240@50-60        | 60               | No       | 5.1 x 2.4 x 1.3     | 4' 1/6         | 0.7        | UL/CUL/TUV/CE     | 44.95           | 40.95   | 36.95   | 32.95   |
| 1952370   | Mean Well     | GS60A12-P1J           | +12/5.0                         | 2.1mm x 5.5mm F 2                                 | 90-264@47-63         | 60               | Yes      | 4.9 x 1.9 x 1.2     | 4' 1/2         | 0.7        | UL/CUL/TUV/CEC    | 28.95           | 26.95   | 24.95   | 22.95   |
| 155231  | Mean Well     | SPU50-3U              | +12/5.0                         | 2.1mm x 5.5mm F 2                                 | 100-240@47-63        | 60               | Yes      | 5.7 x 3.0 x 1.7     | 6' 1/6         | 1.3        | UL/CSA/TUV        | 49.95           | 44.95   | 39.95   | 35.95   |
| 2099420   | Sparkle Power | FSP060-DBAB1          | +12/5.0                         | 2.5mm x 5.5mm F 2                                 | 100-240@50-60        | 60               | Yes      | 4.3 x 2.4 x 1.2     | 5' 1/2         | 0.5        | UL/CUL/TUV/CEC    | 32.95           | 29.95   | 26.95   | 23.95   |
| 2078291   | Mean Well     | GS90A12-P1M           | +12/6.67                        | 2.5mm x 5.5mm F 2                                 | 100-240@50-60        | 80               | Yes      | 5.7 x 2.3 x 1.3     | 4' 1/2         | 0.9        | UL/CUL/TUV/CEC    | 44.49           | 41.49   | 38.95   | 36.49   |
| 221249  | Mean Well     | U6S510S-P2JU          | +12/6.7                         | 2.1mm x 5.5mm F 2                                 | 100-240@50-60        | 80               | Yes      | 6.6 x 3.1 x 1.8     | 6' 1/6         | 2.0        | UL/CUL/TUV/CE     | 64.95           | 59.95   | 54.95   | 49.95   |
| 1940846   | Mean Well     | AS-120P-12            | +12/8.4                         | 4-pin DIN M                                       | 100-240@50-60        | 100              | No       | 6.6 x 2.6 x 1.4     | 4' 1/2         | 1.2        | UL/CUL/TUV/CE     | 58.95           | 54.95   | 51.95   | 48.95   |
| 2099294   | Mean Well     | GS220A12-R7B          | +12/15                          | 4-pin DIN M                                       | 90-264/127-370@47-63 | 180              | Yes      | 8.3 x 3.4 x 1.8     | 3.3' 1/2       | 2.4        | UL/CUL/TUV/CE/PCF | 129.95          | 116.95  | 104.95  | 94.95   |
| 1954261   | Mean Well     | GS15A-4P1J            | +15/1.0                         | 2.1mm x 5.5mm F 2                                 | 100-240@50-60        | 15               | No       | 3.1 x 2.3 x 1.3     | 6' 1/2         | 0.5        | UL/CUL/TUV/CEC    | 18.49           | 16.49   | 14.49   | 12.95   |
| 1940432   | Mean Well     | GS18A15-P1JU          | +15/1.2                         | 2.1mm x 5.5mm F 2                                 | 100-240@50-60        | 18               | Yes      | 3.7 x 2.1 x 1.4     | 6' 1/6         | 0.5        | UL/CUL/TUV/CEC    | 18.49           | 16.49   | 14.49   | 12.95   |
| 1940619   | Mean Well     | GS25A15-P1J           | +15/1.66                        | 2.1mm x 5.5mm F 2                                 | 100-240@50-60        | 25               | No       | 3.7 x 2.1 x 1.4     | 6' 1/2         | 0.5        | UL/CUL/TUV/CEC    | 16.49           | 14.95   | 13.49   | 12.49   |
| 243012  | Mean Well     | P30A-41P2JU           | +15/1.8                         | 2.1mm x 5.5mm F 2                                 | 100-240@50-60        | 27               | Yes      | 4.2 x 2.6 x 1.4     | 6' 1/6         | 0.8        | UL/CUL/TUV/CE     | 24.95           | 22.49   | 19.95   | 18.49   |
| 221577  | Mean Well     | GS40A15-P1J           | +15/2.67                        | 2.1mm x 5.5mm F 2                                 | 90-264@50-60         | 40               | Yes      | 4.9 x 2.0 x 1.3     | 6' 1/2         | 0.8        | UL/CUL/TUV/CE/CEC | 25.95           | 24.49   | 22.95   | 21.49   |
| 1954295   | Mean Well     | GS60A15-P1J           | +15/4.0                         | 2.1mm x 5.5mm F 2                                 | 90-264@47-63         | 60               | Yes      | 4.9 x 2.0 x 1.2     | 4' 1/2         | 0.7        | UL/CUL/TUV/CE     | 28.95           | 26.95   | 24.95   | 22.95   |
| 2078320   | Mean Well     | GS90A15-P1M           | +15/6.0                         | 2.5mm x 5.5mm F 2                                 | 100-240@50-60        | 90               | Yes      | 5.7 x 2.3 x 1.3     | 3' 3/4' 1/2    | 0.8        | UL/CUL/TUV/CEC    | 44.49           | 41.49   | 38.95   | 36.49   |
| 1940854   | Mean Well     | AS-120P-15            | +15/6.7                         | 4-pin DIN M                                       | 100-240@50-60        | 100              | No       | 6.6 x 2.6 x 1.4     | 4' 1/2         | 1.2        | UL/CUL/TUV/CE     | 58.95           | 54.95   | 51.95   | 48.95   |
| 243046  | Mean Well     | P66A-5P2JU            | +18/3.66                        | 2.1mm x 5.5mm F 2                                 | 100-240@50-60        | 66               | Yes      | 5.8 x 3.0 x 1.7     | 6' 1/6         | 1.2        | UL/CUL/TUV/CE     | 44.95           | 40.95   | 36.95   | 32.95   |
| 148267  | AcBell        | AP13AD02              | +19/3.42                        | 2.5mm x 5.5mm F 2†                                | 100-240@50-60        | 65               | No       | 4.2 x 1.8 x 1.1     | 6' 1/6         | 0.8        | UL/CUL/TUV/CE     | 36.95           | 32.95   | 29.95   | 26.95   |
| 2099411   | Sparkle Power | FSP090-DMCBI          | +19/4.74                        | 7ea. R/A plugs F 2††                              | 100-240@50-60        | 90               | No       | 5.3 x 2.3 x 1.3     | 6' 1/6         | 0.7        | UL/CUL/TUV/CEC    | 59.95           | 53.95   | 47.95   | 42.95   |
| 2099761   | Hi-Capacity   | AC-C10K               | +19/8.0                         | 2.5mm x 5.5mm F 2                                 | 100-240@50-60        | 120              | Yes      | 6.6 x 2.4 x 1.5     | 4' 1/6         | 1.0        | UL/CUL/TUV/CE     | 49.95           | 44.95   | 39.95   | 35.95   |
| 1954279   | Mean Well     | GS15A-6P1J            | +24/0.62                        | 2.1mm x 5.5mm F 2                                 | 90-264@47-63         | 12               | No       | 3.9 x 2.3 x 1.3     | 6' 1/2         | 0.4        | UL/CUL/TUV/CEC    | 18.49           | 16.49   | 14.49   | 12.95   |
| 1940459   | Mean Well     | GS18A24-P1J           | +24/0.75                        | 2.1mm x 5.5mm F 2                                 | 100-240@50-60        | 18               | Yes      | 3.7 x 2.1 x 1.4     | 6' 1/2         | 0.5        | UL/CUL/TUV/CEC    | 15.95           | 14.49   | 13.49   | 12.49   |
| 1940635   | Mean Well     | GS25A24-P1JU          | +24/1.04                        | 2.1mm x 5.5mm F 2                                 | 100-240@50-60        | 25               | No       | 3.7 x 2.1 x 1.4     | 6' 1/6         | 0.5        | UL/CUL/TUV/CEC    | 18.95           | 16.95   | 14.95   | 13.49   |
| 380577  | Mean Well     | ES25A24-P1MU          | +24/1.04                        | 2.5mm x 5.5mm F 2                                 | 100-240@50-60        | 25               | Yes      | 3.7 x 2.1 x 1.4     | 6' 1/6         | 0.6        | UL/CSA/TUV/CE     | 19.95           | 17.95   | 15.95   | 13.95   |
| 229026  | Phihong       | PSC30U-240-R          | +24/1.25                        | 2.1mm x 5.5mm F 2                                 | 100-240@50-60        | 30               | No       | 4.5 x 2.4 x 1.4     | 6' 1/2         | 0.5        | UL/CUL/TUV/CE     | 26.95           | 24.95   | 22.95   | 21.49   |
| 1952353   | Mean Well     | GS40A24-P1J           | +24/1.67                        | 2.1mm x 5.5mm F 2                                 | 90-264@47-63         | 40               | Yes      | 4.9 x 2.0 x 1.2     | 6' 1/2         | 0.7        | UL/CUL/TUV/CEC    | 24.95           | 22.49   | 19.95   | 17.95   |
| 1940281   | EDAC, Inc.    | EA1050D               | +24/2.08                        | 2.1mm x 5.5mm F 2                                 | 100-240@50-60        | 50               | Yes      | 4.7 x 2.4 x 1.4     | 4' 1/2         | 0.6        | UL/CUL/TUV/CEC    | 24.95           | 22.49   | 19.95   | 17.95   |
| 1942788   | EDAC, Inc.    | EA1050B240            | +24/2.5                         | 2.1mm x 5.5mm F 2                                 | 100-240@50-60        | 60               | Yes      | 4.8 x 2.4 x 1.4     | 6' 1/2         | 1.8        | UL/CUL/TUV/CE/CEC | 24.95           | 22.49   | 19.95   | 17.95   |
| 1952214   | Mean Well     | GS60A24-P1J           | +24/2.5                         | 2.1mm x 5.5mm F 2                                 | 90-264@47-63         | 60               | Yes      | 4.9 x 2.0 x 1.3     | 6' 1/2         | 0.7        | UL/CUL/TUV/CEC    | 28.95           | 26.95   | 24.95   | 22.95   |
| 161606  | Mean Well     | SPU50-6U-R            | +24/2.5                         | 2.1mm x 5.5mm F 2                                 | 100-240@47-63        | 60               | Yes      | 5.6 x 2.9 x 1.6     | 6' 1/6         | 1.3        | UL/CSA/TUV        | 49.95           | 44.95   | 39.95   | 35.95   |
| 1950913   | EDAC, Inc.    | EA1050B-240-1         | +24/2.5                         | 2.5mm x 5.5mm F 2                                 | 100-240@50-60        | 60               | Yes      | 4.8 x 2.4 x 1.4     | 6' 1/2         | 1.8        | UL/CUL/TUV/CE     | 29.95           | 26.95   | 24.95   | 22.95   |
| 355056  | ReliaPro      | JR-TT-66-24           | +24/2.75                        | 2.1mm x 5.5mm F 2                                 | 100-240@50-60        | 66               | Yes      | 5.8 x 3.0 x 1.7     | 6' 1/2         | 1.2        | UL/CUL/TUV/CE     | 44.95           | 40.95   | 36.95   | 32.95   |
| 2078338   | Mean Well     | GS90A24-P1M           | +24/3.75                        | 2.5mm x 5.5mm F 2                                 | 100-240@50-60        | 90               | No       | 5.9 x 2.3 x 1.2     | 4' 1/2         | 0.9        | UL/CUL/TUV/CEC    | 44.49           | 41.49   | 38.95   | 36.49   |
| 1940871   | Mean Well     | AS-120P-24            | +24/5.0                         | 2.5mm x 5.5mm F 2                                 | 100-240@50-60        | 120              | No       | 6.6 x 2.6 x 1.4     | 4' 1/2         | 1.2        | UL/CUL/TUV/CE     | 58.95           | 54.95   | 51.95   | 48.95   |
| 2099286   | Mean Well     | GS220A24-R7B          | +24/9.2                         | 4-pin DIN M                                       | 90-264/127-370@47-63 | 220              | Yes      | 8.3 x 3.4 x 1.8     | 3.3' 1/2       | 2.4        | UL/CUL/TUV/CE/PCF | 129.95          | 116.95  | 104.95  | 94.95   |
| 1707083   | Mean Well     | ES18A28-P1J           | +28/0.64                        | 2.1mm x 5.5mm F 2                                 | 100-264@47-63        | 18               | Yes      | 3.7 x 2.1 x 1.4     | 6' 1/2         | 0.5        | UL/CUL/TUV/CE/CE  | 12.95           | 10.95   | 9.49    | 8.49    |
| 1940643   | Mean Well     | GS25A28-P1JU          | +28/0.89                        | 2.1mm x 5.5mm F 2                                 | 100-240@50-60        | 25               | No       | 3.7 x 2.1 x 1.4     | 6' 1/6         | 0.7        | UL/CUL/TUV/CEC    | 18.95           | 16.95   | 14.95   | 13.49   |
| 1940475   | Mean Well     | GS18A48-P1JU          | +48/0.37                        | 2.1mm x 5.5mm F 2                                 | 100-240@50-60        | 18               | No       | 3.6 x 2.1 x 1.4     | 6' 1/6         | 0.5        | UL/CUL/TUV/CEC    | 18.49           | 16.49   | 14.49   | 12.95   |
| 1940651   | Mean Well     | GS25A48-P1J           | +48/0.52                        | 2.1mm x 5.5mm F 2                                 | 100-240@50-60        | 25               | No       | 3.7 x 2.1 x 1.4     | 6' 1/2         | 0.5        | UL/CUL/TUV/CEC    | 16.49           | 14.95   | 13.49   | 12.49   |
| 229032  | Phihong       | PSA31U-480            | +48/0.63                        | 2.1mm x 5.5mm F 2                                 | 90-264@47-63         | 30               | No       | 4.5 x 2.4 x 1.6     | 6' 1/2         | 0.5        | UL/CUL/TUV/CE     | 24.95           | 22.49   | 19.95   | 18.95   |
| 221584  | Mean Well     | P40A-8P2JU            | +48/0.8                         | 2.1mm x 5.5mm F 2                                 | 100-240@50-60        | 40               | Yes      | 4.3 x 2.6 x 1.4     | 6' 1/6         | 0.8        | UL/CUL/TUV/CE     | 25.95           | 23.95   | 21.95   | 19.95   |
| 221585  | Mean Well     | GS40A48-P1J           | +48/0.84                        | 2.1mm x 5.5mm F 2                                 | 100-240@50-60        | 40               | Yes      | 4.9 x 2.0 x 1.3     | 6' 1/6         | 0.8        | UL/CUL/TUV/CE     | 27.95           | 25.95   | 23.95   | 21.95   |
| 172065  | Mean Well     | SPU50-9U              | +48/1.25                        | 2.1mm x 5.5mm F 2                                 | 100-240@50-60        | 60               | Yes      | 5.6 x 2.9 x 1.7     | 6' 1/6         | 1.3        | UL/CSA/TUV        | 44.95           | 39.95   | 36.95   | 33.95   |
| 1952396   | Mean Well     | GS60A48-P1JU          | +48/1.25                        | 2.1mm x 5.5mm F 2                                 | 90-264@47-63         | 60               | Yes      | 4.9 x 2.0 x 1.2     | 6' 1/6         | 0.7        | UL/CUL/TUV/CE/CEC | 28.95           | 26.95   | 24.95   | 22.95   |
| 376615  | Mean Well     | P66A-8P2JU            | +48/1.37                        | 2.1mm x 5.5mm F 2                                 | 100-240@50-60        | 66               | Yes      | 5.8 x 3.0 x 1.7     | 6' 1/6         | 1.2        | UL/CSA/TUV/CE     | 39.95           | 36.95   | 33.95   | 31.49   |
| 379681  | Mean Well     | P66A-8P2MU            | +48/1.37                        | 2.5mm x 5.5mm F 2                                 | 90-264@47-63         | 66               | Yes      | 5.8 x 3.0 x 1.7     | 6' 1/6         | 1.2        | UL/CSA/TUV/CE     | 44.95           | 41.95   | 38.95   | 35.95   |
| 3-Wire AC Input – Regulated Switching Table-Top – Double & Triple Output    |               |                       |                                 |   |                      |                  |          |                     |                |            |                   | * Web Code: TDO |         |         |         |
| 196270  | Horizon       | PSU25A13              | +5/2.5, +12/0.1                 | 4-pin mini DIN M                                  | 100-240@47-63        | 25               | No       | 4.2 x 2.6 x 1.4     | 6' 1/4         | 1.2        | UL/CUL/TUV/CE     | \$32.95         | \$29.95 | \$26.95 | \$23.95 |
| 221720  | Mean Well     | P25A14E-R1BU          | +5/2.5, +15/0.3, -15/0.3        | 5-pin DIN M                                       | 100-240@50-60        | 25               | Yes      | 4.3 x 2.6 x 1.4     | 6' 1/2         | 0.8        | UL/CUL/TUV/CE     | 34.95           | 31.49   | 28.95   | 25.95   |

\* See accessory table-top power cord chart on page 129 when AC cord needed; refer to 1, 2 or 3 in "Cord (DC/AC)" column above for correct power cord † Right Angle

†† Includes 7ea. DC right angle plugs (1.7 x 4.75, 1.7 x 5.5, 2.1 x 5.5, 2.5 x 5.5, 3.0 x 6.3, 4.3 x 6.5, 5.8mm x 6.5mm) for various notebook compatibility

✓ CEC Equivalent available. Add a "C" before part number for CEC version. CEC

3-Wire Regulated Table-Top Power Supplies continued on next page

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 197.

# Table-Top Power Supplies, Power Cords & Adapters

## AC-to-DC Regulated Switching Table-Top Power Supplies (Continued)

We are happy to change the power plug on any listed table-top power supply to a connector of your choice (see below) for just \$2.50 each. A 100 pc. minimum order applies.

| Part No.  | Manufacturer | Manufacturer Part No. | Output                      | Output Connector                    | Input         | Output | LED | Size            | Cords | Wt. | Agency        | Pricing        |         |                |         |
|---|--------------|-----------------------|-----------------------------|-------------------------------------|---------------|--------|-----|-----------------|-------|-----|---------------|----------------|---------|----------------|---------|
|   |              |                       | Volts (VDC)/<br>Current (A) | ID x OD mm<br>Female/Male; Polarity |               | VAC@Hz |     |                 |       |     |               | Power<br>(W)   | Ind.    | (L" x W" x H") | (DC/AC) |
| 3-Wire AC Input – Regulated Switching Table-Top – Triple Output (Continued) |              |                       |                             |                                     |               |        |     |                 |       |     |               | ★Web Code: TTO |         |                |         |
| 190960  | Mean Well    | P25A13D-R1U           | +5/2.5, +12/0.8, -12/0.3    | 5-pin DIN M                         | 100-240@50-60 | 26     | Yes | 4.1 x 2.6 x 1.4 | 6'6"  | 1.1 | CUL/TUV/CE    | \$39.95        | \$35.95 | \$32.95        | \$29.95 |
| 221702  | Mean Well    | P50A13D-R1BU          | +5/4.0, +12/2.0, -12/0.5    | 5-pin DIN M                         | 100-240@50-60 | 50     | Yes | 5.7 x 3.0 x 1.7 | 4'6"  | 1.5 | UL/CUL/TUV/CE | 49.95          | 44.95   | 39.95          | 35.95   |
| 237367  | Mean Well    | P50A14E-R1BU          | +5/3.5; +15/1.2, -15/0.3    | 5-pin DIN M                         | 100-240@47-63 | 42     | Yes | 5.8 x 3.0 x 1.7 | 4'6"  | 1.2 | UL/CUL/TUV/CE | 49.95          | 44.95   | 39.95          | 35.95   |



189587



38050

### Accessory Power Input Cords for Table-Top Power Supplies



1951123

\*Web Code: RBE

| Part No. | Ref. No. * | Description                                       | Color | AWG  | Certification | Cord Length | Wt. (lbs.) | Cord Type | 1      | 10     | 50     | 100    |
|----------|------------|---|-------|------|---------------|-------------|------------|-----------|--------|--------|--------|--------|
| 189587   | 1          | 2-conductor power cord (Figure 8 style)           | Black | 18/2 | UL/CSA        | 6'          | 0.3        | SPT       | \$2.69 | \$2.39 | \$2.19 | \$1.95 |
| 38050    | 2          | 3-conductor power cord                            | Black | 18/3 | UL/CSA        | 6'          | 0.4        | SVT       | 3.95   | 3.59   | 3.25   | 2.95   |
| 1953559  | 3          | 3-conductor flat power cord (Mickey Mouse style)  | Black | 18/3 | UL/CSA        | 6'          | 0.4        | SPT-2     | 2.95   | 2.65   | 2.39   | 1.95   |
| 1951123  | 3          | 3-conductor round power cord (Mickey Mouse style) | Black | 18/3 | UL/CSA        | 6'          | 0.4        | SVT       | 3.95   | 3.49   | 2.95   | 2.49   |

\*These reference numbers for "AC cord needed" for Table-Top Power Supplies on pages 126-128

More Power Cords on page 133

## 24-Watt Switching Table-Top Power Supply

### Interchangeable AC & DC Plugs with Selected DC Outputs

- Input voltage: 100-240VAC @ 50-60Hz
- Output current: 2A
- Output connectors: 2.5mm & 3.5mm male, 1mm x 3mm, 2.1mm x 5mm, 2.5mm x 5mm, 1.35mm x 3.5mm x 1.7mm x 4mm
- Interchangeable AC input plugs for USA/UK/Europe/Taiwan/China (included)
- Selectable outputs: 3VDC, 4.5VDC, 6VDC, 7.5VDC, 9VDC, 12VDC

| Part No. | Mfr. Part No. | Size (H x W x D)   | 1       | 10      | 25      |
|----------|---------------|--------------------|---------|---------|---------|
| 1537491  | PSSMV3        | 4.7" x 3.3" x 2.5" | \$39.95 | \$35.95 | \$32.95 |

## 36-Watt Switching Table-Top Power Supply

- Output voltage: 5VDC to 24VDC in 1V increments
- Output connectors: 2.5mm & 3.5mm male, 1mm x 3mm, 1.35mm x 3.5mm, 1.5mm x 5mm, 1.7mm x 4mm, 2.1mm x 5mm and 2.5mm x 5mm
- Stabilized outputs, low ripple & interference
- High efficiency, low energy consumption
- Input voltage: 100-240VAC @ 50/60Hz
- Short-circuit, overload protection • LED power indicator

Includes: AC power cord

| Part No. | Mfr. Part No. | Output Current | Size (L x W x H)   | 1       | 10      | 25      |
|----------|---------------|----------------|--------------------|---------|---------|---------|
| 1537521  | PSSMV7U       | 1.5A to 4A     | 3.5" x 1.8" x 1.2" | \$49.95 | \$44.95 | \$39.95 |

## GlobTek® AC-to-DC Medical Table-Top Regulated Switching Power Supplies

- 2.5mm x 5.5mm female center positive
- Input voltage: 90-264VAC @ 47-63Hz
- Leakage current: 0.1mA max.
- Regulation (line & load): ±5%
- Isolation voltage: 4,000VAC • 3-wire AC input
- Ripple & noise: 1% or 100mV, whichever is smaller
- Cord lengths: DC: 6'; AC: not included use P/N 115078, pg 133
- Size: 2.9"L x 2.0"W x 1.6"H

\*Web Code: WBM



| Part No. | Mfr. Part No. | Power (W) | Output VDC/Amps | Pricing |         |         |         |
|----------|---------------|-----------|-----------------|---------|---------|---------|---------|
|          |               |           |                 | 1       | 10      | 25      | 100     |
| 230683   | TR9CE1250CP   | 15.6      | +12/1.3         | \$35.95 | \$24.95 | \$21.49 | \$19.95 |
| 230763   | TR9CE4000LCP  | 49.2      | +12/4.1         | 54.95   | 49.95   | 44.95   | 39.95   |
| 230691   | TR9CG1200CP   | 18.0      | +15/1.2         | 44.95   | 39.95   | 35.95   | 32.95   |
| 230772   | TR9CG3333LCP  | 49.5      | +15/3.3         | 49.95   | 44.95   | 39.95   | 35.95   |
| 230798   | TR9CI2100LCP  | 50.4      | +24/2.1         | 59.95   | 53.95   | 47.95   | 42.95   |



## 5VDC@0.5A Interchangeable Wall Plug Adapter

### With USB Socket Type A

\*Web Code: NBH

- Voltage output: 5VDC @ 0.5A
- Voltage input: 90-264VAC @ 47-63Hz • Efficiency: 55% (typical)
- Leakage current: 0.20µA max. • UL/CUL/TUV/CE approved
- Size: 2.97"L x 1.81"W x 1.25"H • Wall plug clips not included

| Part No. | Product No. | 1       | 10     | 50     | 100    |
|----------|-------------|---------|--------|--------|--------|
| 662805   | PSC30R-050  | \$10.95 | \$9.95 | \$8.95 | \$7.95 |

## USB-A Power Cable with Interchangeable Tips

- 4' cable • 26 AWG
- USB-A male connector • UL/CSA approved
- Tips: 1.3mm x 5.5mm female, 1.5mm x 4.8mm female, 1.7mm x 4.8mm female, 2.1mm x 5.5mm female, 2.5mm x 5.5mm female, 2.9mm x 6.3mm female, 1.3mm x 3.3mm female, and 1.3mm x 4.3mm female,
- For use with P/N 662805 wall adapter (see above)

| Part No. | Product No. | 1      | 10     | 50     | 100    |
|----------|-------------|--------|--------|--------|--------|
| 2081625  | USBAC8      | \$8.95 | \$7.95 | \$6.95 | \$5.95 |



## Cigarette Lighter Car Power Adapter

- Switch selectable 1.5V, 3V, 4.5V, 5V, 6V, 9V and 12V
- DC power plugs: 2.5mm x 5mm, 2.1mm x 5mm, 1.5mm x 5mm, 1.7mm x 4mm, 1.3mm x 3.5mm and 0.7mm x 2.35mm
- Powers portable electronic devices such as MP3 players, cell phones, etc.
- Switching power supply provides 1000mA from cigarette lighter plug
- Reversible plug for center positive or negative polarity

| Part No. | Mfr. Part No. | 1       | 10      | 50     | 100    |
|----------|---------------|---------|---------|--------|--------|
| 155230   | JCD22A+       | \$14.95 | \$12.95 | \$9.95 | \$8.95 |

## Auto/Air Cigarette DC/DC Power Adapter

- Input voltage: 11VDC to 16VDC @ 10A max.
- Input connector: cigarette plug, fused (15A @ 250V)
- Output connector: interchangeable tips of 2.1mm F, 2.5mm F, 3.5mm M
- Input/Output cord length: 42"/48"
- Color: black with LED power indicator
- Size: 4.7"L x 2.0"W x 1.0"H

| Part No. | Product No. | 1       | 10      | 50      | 100     |
|----------|-------------|---------|---------|---------|---------|
| 2099770  | AA-5001G    | \$19.95 | \$17.95 | \$15.95 | \$14.49 |

\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above



# Power Plugs, Adapters & Jacks

3 LEVELS OF SAVINGS  
NAME BRANDS HOUSE BRANDS FACTORY OVERRUN

JAMECO  
ValuePro

NEW  
MARKED IN PINK

## DC Power Plugs & Adapters



★ Web Code: MFP

| Part No. | Mfr.        | Product No.   | Fig. | Description (Barrel)<br>Plug ID x OD x L (mm) | Strain Relief<br>ID x L (mm) | 1     | 10    | 100   |
|----------|-------------|---------------|------|---|------------------------------|-------|-------|-------|
| 71192    | ValuePro    | PP137         | 1    | F plug, 1.3 x 3.5 x 9.5                       | 4.1 x 12 (black)             | \$.79 | \$.69 | \$.65 |
| 1537395  | ValuePro    | PL-005        | 2    | F plug, 1.3 x 3.5 x 9.4 (rt. angle)           | 2.8 x 11                     | .95   | .85   | .75   |
| 2098013  | ValuePro    | DCP-111       | 1    | F plug, 1.7 x 5.5 x 9.8                       | 4.6 x 12 (black)             | .95   | .85   | .75   |
| 191484   | ValuePro    | PP049W        | 1    | F plug, 2.1 x 5.5 x 9.0                       | 4.6 x 12.5 (white)           | .69   | .59   | .55   |
| 2004890  | ValuePro    | PP049S        | 1    | F plug, 2.1 x 5.5 x 9.5                       | 4.5 x 12.5 (black)           | .79   | .69   | .65   |
| 297617   | Switchcraft | S760          | 3    | F plug, 2.1 x 5.5 x 9.5                       | 5.5 x 25 (black)             | 3.95  | 3.49  | 2.95  |
| 28760    | ValuePro    | PP049         | 1    | F plug, 2.1 x 5.5 x 10 (P205)                 | 4.1 x 12 (black)             | .79   | .69   | .55   |
| 138587   | ValuePro    | PJ021R        | 2    | F plug, 2.1 x 5.5 x 12 (rt. angle)            | 2.8 x 11 (black)             | .89   | .79   | .65   |
| 147329   | ValuePro    | PP049L        | 1    | F plug, 2.1 x 5.5 x 14 (P205L)                | 4.3 x 12 (black)             | .89   | .79   | .65   |
| 190538   | ValuePro    | PP109S        | 1    | F plug, 2.5 x 5.5 x 9.5                       | 5.0 x 13 (black)             | .59   | .55   | .49   |
| 281877   | Switchcraft | 760           | 3    | F plug, 2.5 x 5.5 x 9.5                       | 5.5 x 25 (black)             | 2.95  | 2.49  | 2.19  |
| 28768    | ValuePro    | PP109         | 1    | F plug, 2.5 x 5.5 x 10 (P206)                 | 4.2 x 12 (black)             | .79   | .69   | .59   |
| 147336   | ValuePro    | PP109L        | 1    | F plug, 2.5 x 5.5 x 14 (P206L)                | 4.2 x 12 (black)             | .79   | .69   | .59   |
| 168242   | ValuePro    | PP109N        | 3    | F plug, 2.5 x 5.5 x 14                        | 3.9 x 22 (black)             | .69   | .59   | .55   |
| 2099163  | ValuePro    | PL-008        | 2    | F plug, 2.5 x 5.5 x 9.5 (rt. angle)           | 2.8 x 11                     | .95   | .85   | .75   |
| 101135   | ValuePro    | PJ1025        | 4    | M plug, — x 2.5 x 11 (P201)                   | 4.3 x 13 (black)             | .79   | .69   | .55   |
| 231176   | ValuePro    | AP-340        | 4    | M plug, — x 3.5 x 14 (stereo)                 | 4.3 x 13.5 (black)           | .79   | .69   | .55   |
| 231167   | ValuePro    | AP-343        | 5    | M plug, — x 3.5 x 14 (stereo)                 | 4.4 x 13 (metal)             | 1.49  | 1.25  | .99   |
| 231160   | ValuePro    | PJ1035        | 5    | M plug, — x 3.5 x 14 (mono)                   | 4.8 x 13.5 (metal)           | 1.49  | 1.25  | .99   |
| 101152   | ValuePro    | PJ1035        | 4    | M plug, — x 3.5 x 14.5 (P202)                 | 4.0 x 13 (black)             | .69   | .59   | .49   |
| 2113703  | ValuePro    | JR1826        | 6    | Adapter, 1.7mm M to 2.1mm F (1.7"L)           | —                            | 1.49  | 1.25  | .99   |
| 2112989  | ValuePro    | JP1828C       | 6    | Adapter, 2.1mm M to 1.3mm F (1.3"L)           | —                            | 1.49  | 1.25  | .99   |
| 1953591  | ValuePro    | DCJ2.1-DCP2.5 | 6    | Adapter, 2.1mm M to 2.5mm F (1.4"L)           | —                            | 1.49  | 1.25  | .99   |
| 2113009  | ValuePro    | JP1829        | 6    | Adapter, 2.5mm M to 1.3mm F (1.3"L)           | —                            | 1.49  | 1.25  | .99   |
| 2113711  | ValuePro    | Jr1827        | 6    | Adapter, 2.5mm M to 1.7mm F (1.7"L)           | —                            | 1.49  | 1.25  | .99   |
| 1953604  | ValuePro    | DCJ2.5-DCP2.1 | 6    | Adapter, 2.5mm M to 2.1mm F (1.4"L)           | —                            | 1.49  | 1.25  | .99   |

### DC Cords with Pigtail – 6' length

| Part No. | Mfr.     | Cross Ref. No. | Fig. | Description (Barrel)<br>ID x OD x L (mm) | AWG        | 1      | 10     | 100    |
|----------|----------|----------------|------|--|------------|--------|--------|--------|
| 2113674  | ValuePro | DCCORD1.3      | 7    | Jack, 1.3 x 3.5 x 12                     | 24 (black) | \$1.59 | \$1.39 | \$1.15 |
| 2114693  | ValuePro | DCCORD1.7      | 8    | Plug, 1.7 x 2.5 x 12                     | 24 (black) | 1.59   | 1.39   | 1.15   |
| 2114706  | ValuePro | 6FT#245.5X1.7  | 7    | Jack, 1.7 x 2.5 x 12                     | 24 (black) | 1.59   | 1.39   | 1.15   |
| 2096763  | ValuePro | DCCORD2.1      | 7    | Jack, 2.1 x 5.5 x 12                     | 24 (black) | 1.59   | 1.39   | 1.15   |
| 2114600  | ValuePro | 6FT#245.5X2.1  | 8    | Plug, 2.1 x 5.5 x 12                     | 24 (black) | 1.59   | 1.39   | 1.15   |
| 2096771  | ValuePro | DCCORD2.5      | 7    | Jack, 2.5 x 5.5 x 12                     | 24 (black) | 1.59   | 1.39   | 1.15   |
| 2114597  | ValuePro | 6FT#245.5X2.5  | 8    | Plug, 2.5 x 5.5 x 12                     | 24 (black) | 1.59   | 1.39   | 1.15   |

### DC Extension Power Cables

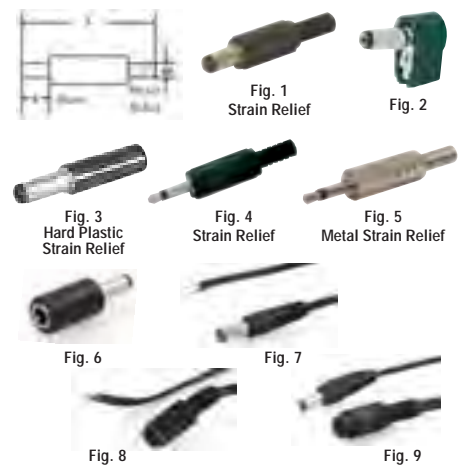
| Part No. | Mfr.     | Cross Ref. No.    | Fig. | Description (Barrel)<br>ID x OD x L (mm) | AWG        | 1      | 10     | 100    |
|----------|----------|-------------------|------|--|------------|--------|--------|--------|
| 2099147  | ValuePro | DCEXTCORD2.1- 3FT | 9    | 2.1F x 2.1M x 3' cable                   | 18 (black) | \$1.75 | \$1.49 | \$1.25 |
| 2099121  | ValuePro | DCEXTCORD2.1- 6FT | 9    | 2.1F x 2.1M x 6' cable                   | 18 (black) | 1.95   | 1.75   | 1.49   |
| 2099155  | ValuePro | DCEXTCORD2.5- 3FT | 9    | 2.5F x 2.5M x 3' cable                   | 18 (black) | 1.75   | 1.49   | 1.25   |
| 2099139  | ValuePro | DCEXTCORD2.5- 6FT | 9    | 2.5F x 2.5M x 6' cable                   | 18 (black) | 1.95   | 1.75   | 1.49   |

## Male & Female Power Jacks

| Part No. | Mfr.        | Product No. | Description   | Dimensions<br>H x W x D (mm) | Type/<br>Mount | Circuit/<br>Terminal | Mating Plug<br>(see right) | Terminals     |          |       |
|----------|-------------|-------------|---------------|------------------------------|----------------|----------------------|----------------------------|---------------|----------|-------|
|          |             |             |               |                              |                |                      |                            | Solder eyelet | PC board | Code  |
|          |             |             |               |                              |                |                      |                            | 1             | 10       | 100   |
| 101194   | Various     | PP024       | 1.3mm male    | 6.0 x 6.0 x 9.0              | 1/D            | 1/B                  | 1.3 mm F                   | \$.59         | \$.55    | \$.45 |
| 101178   | Various     | PP014+      | 2.1mm male    | 10.9 x 9.0 x 14.5            | 2/D            | 1/A                  | 2.1 mm F                   | .39           | .35      | .29   |
| 137673   | Various     | PP013       | 2.1mm male    | 10.9 x 9.0 x 14.5            | 3/D            | 4/A                  | 2.1 mm F                   | .45           | .39      | .35   |
| 151590   | Various     | DPJ-021A    | 2.1mm male    | 18.0 x 12.6 Dia.             | 4/C            | 1/A                  | 2.1 mm F                   | .89           | .79      | .69   |
| 151555   | ValuePro    | DPJ-026     | 2.1mm male    | 21.0 x 8.0 Dia.              | 5/E            | 1/A                  | 2.1 mm F                   | 1.49          | 1.35     | 1.19  |
| 159611   | Various     | PJ1014A     | 2.1mm male    | 57.5 x 12.6 Dia.             | 6/F            | 3/A                  | 2.1 mm F                   | 1.75          | 1.59     | 1.39  |
| 281851   | Switchcraft | 722A        | 2.1mm male    | 15.1 x 7.5 Dia.              | 7/C            | 1/A                  | 2.1 mm F                   | 2.75          | 2.49     | 2.25  |
| 207714   | Various     | HEC0470     | 2.5 mm male   | 11.0 x 9.0 x 14.5            | 2/D            | 1/B                  | 2.5 mm F                   | .55           | .49      | .39   |
| 101186   | Various     | PP014A+     | 2.5 mm male   | 11.0 x 9.0 x 14.5            | 2/D            | 1/A                  | 2.5 mm F                   | .49           | .45      | .29   |
| 151563   | Various     | DPJ-026A    | 2.5 mm male   | 15.1 x 8.0 Dia.              | 5/E            | 1/A                  | 2.5 mm F                   | 1.49          | 1.35     | 1.19  |
| 159506   | Various     | PJ1015A     | 2.5 mm male   | 57.5 x 12.6 Dia.             | 6/F            | 3/A                  | 2.5 mm F                   | 1.49          | 1.35     | 1.19  |
| 202358   | Various     | HD2388      | 2.5 mm male   | 12.4 x 7.7 Dia.              | 8/C            | 3/A                  | 2.5 mm F                   | 1.19          | .99      | .89   |
| 2100355  | Switchcraft | HE2388M     | 2.5 mm male   | 17.1 x 10.9 Dia.             | 8/C            | 4/A                  | 2.5 mm F                   | 1.49          | 1.35     | 1.19  |
| 281842   | Switchcraft | 712A        | 2.5 mm male   | 15.8 x 7.5 Dia.              | 7/C            | 1/A                  | 2.5 mm F                   | 3.95          | 3.39     | 2.95  |
| 297553   | Switchcraft | PC712A      | 2.5 mm male   | 23.3 x 11.0 Dia.             | 9/D            | 1/A                  | 2.5 mm F                   | 3.95          | 3.39     | 2.95  |
| 297529   | Switchcraft | L712A       | 2.5 mm male   | 23.3 x 11.0 Dia.             | 10/C           | 1/A                  | 2.5 mm F                   | 3.95          | 3.39     | 2.95  |
| 101143   | ValuePro    | PJ0352      | 3.5 mm female | 10.0 x 10.0 x 18.5           | 11/E           | 2/A                  | 3.5 mm M                   | .39           | .35      | .29   |
| 109496   | ValuePro    | PJ035PM     | 3.5 mm female | 10.5 x 9.0 x 20.0            | 12/C           | 2/A                  | 3.5 mm M                   | .49           | .45      | .39   |
| 165730   | ValuePro    | PJ035A      | 3.5 mm female | 15.5 x 5.9 Dia.              | 13/C           | 3/A                  | 3.5 mm M                   | .79           | .69      | .59   |

† Center offset \* Plastic \*\* Metal

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 197.



## Wagan Cell Phone/ PDA Travel Adapter

Provides Both DC & USB Power

Converts any car charger into a wall adapter by simply plugging the adapter into the wall and car charger into the DC port. It's universal for all cell phone brands when used with your car charger. It's also suitable for any PDA or MP3 player by utilizing the USB port.

- DC: 12V @ 500mA • USB: 5V @ 500mA
- Fuse protected • Space saving folding design

| Part No. | Description            | 1       | 10      |
|----------|------------------------|---------|---------|
| 2096051  | AC to DC power adapter | \$14.95 | \$13.49 |

JAMECO  
ValuePro

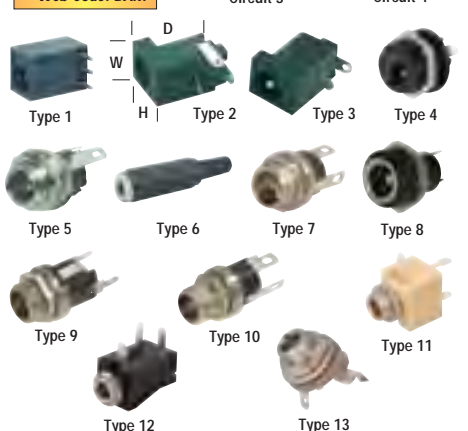
## Automobile Fused Power Plugs with Cords

- Accepts .25" x 1.25" fuse
- 115002: Screw assembly w/ strain relief (no cord)
- 124760: 3' cord w/ pigtail
- 105064: 12' cord w/ pigtail

| Part No. | Mfr.     | Fuse      | 1      | 10     | 100    |
|----------|----------|-----------|--------|--------|--------|
| 115002   | ValuePro | 5A/250VAC | \$2.25 | \$1.99 | \$1.79 |
| 124760   | ValuePro | 3A/250VAC | 2.49   | 2.25   | 1.99   |
| 105064   | Various  | 2A/250VAC | 1.95   | 1.75   | 1.39   |

| Mounting    | Code |
|-------------|------|
| Panel       | C    |
| PCB         | D    |
| Panel & PCB | E    |
| Cable       | F    |

★ Web Code: BAM

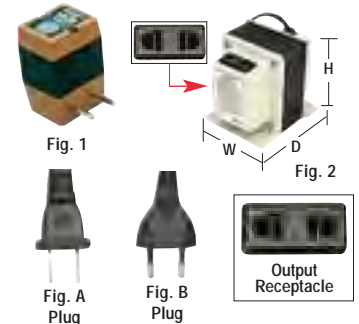


## International Step-Up & Step-Down Transformers

★ Web Code: RAL

| Part No. | Product No. * | Fig. | Type      | Volt Step | Primary Voltage | Secondary Voltage | Power (VA) | Dimensions |      |      | Wt. (lbs.) | Pricing |        |        |
|----------|---------------|------|-----------|-----------|-----------------|-------------------|------------|------------|------|------|------------|---------|--------|--------|
|          |               |      |           |           |                 |                   |            | H"         | W"   | D"   |            | 1       | 10     | 25     |
| 99477    | AC220V50      | 1/A  | Auto      | Up        | 110VAC          | 220VAC            | 50         | 2.50       | 1.63 | 1.33 | 0.7        | \$9.95  | \$8.95 | \$7.95 |
| 85008    | AC220V300     | 2/A  | Auto      | Up        | 110VAC          | 220VAC            | 300        | 3.50       | 3.05 | 3.95 | 4.8        | 39.95   | 35.95  | 31.95  |
| 221331   | GIS-500       | 2/A  | Isolation | —         | 110VAC          | 110VAC            | 500        | 4.69       | 3.75 | 6.00 | 16.0       | 59.95   | 53.95  | 48.95  |
| 221217   | P8689         | 2/A  | Auto      | Up        | 110VAC          | 220VAC            | 1000       | 4.63       | 3.75 | 6.13 | 17.0       | 79.95   | 71.95  | 64.95  |
| 99573    | AC110V50      | 1/B  | Auto      | Down      | 220VAC          | 110VAC            | 50         | 2.50       | 1.63 | 1.33 | 0.7        | 9.95    | 8.95   | 7.95   |
| 85016    | AC110V300     | 2/B  | Auto      | Down      | 220VAC          | 110VAC            | 300        | 3.50       | 3.05 | 3.95 | 4.8        | 39.95   | 35.95  | 31.95  |
| 111851   | AC110V500     | 2/B  | Auto      | Down      | 220VAC          | 110VAC            | 500        | 3.99       | 3.60 | 4.84 | 8.5        | 69.95   | 62.95  | 56.95  |
| 222092   | GISD-1000     | 2/A  | Isolation | Down      | 220VAC          | 110VAC            | 1000       | 5.38       | 4.38 | 8.13 | 31.0       | 79.95   | 71.95  | 64.95  |
| 142906   | AC110V1500    | 2/B  | Auto      | Down      | 220VAC          | 110VAC            | 1500       | 5.25       | 4.50 | 5.75 | 15.2       | 99.95   | 89.95  | 79.95  |

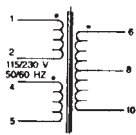
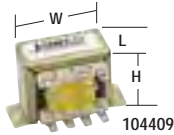
★ Blue Part No. = Limited Quantity Available



## Quick-Connect Power Transformers

★ Web Code: BAN

- Input voltage: 115/230VAC, 50-60Hz
- Terminals: quick-connect, solder



| Part No. | Product No. | Triad Cross * | Input Voltage | Output Voltage | VA   | Size of Connect | Dimensions |      |      | Wt. (lbs.) | Pricing |         |        |
|----------|-------------|---------------|---------------|----------------|------|-----------------|------------|------|------|------------|---------|---------|--------|
|          |             |               |               |                |      |                 | L"         | W"   | H"   |            | 1       | 10      | 25     |
| 104387   | XFR1225Q    | FD612         | 115/230VAC    | 12.6VCT @ 2.5A | 31.5 | 0.187"          | 1.75       | 2.33 | 2.00 | 1.3        | \$11.95 | \$10.95 | \$9.95 |
| 104409   | XFR1635Q    | FD716†        | 115/230VAC    | 16VCT @ 3.5A   | 56.0 | 0.141"          | 2.25       | 2.68 | 2.33 | 1.8        | 15.95   | 14.49   | 12.95  |
| 101864   | XFR2424Q+   | FD724         | 115/230VAC    | 24VCT @ 2.4A   | 57.6 | 0.141"          | 2.10       | 2.70 | 2.29 | 1.7        | 12.95   | 11.49   | 9.95   |
| 104417   | XFR3615Q    | FD736         | 115/230VAC    | 36VCT @ 1.5A   | 54.0 | 0.141"          | 2.30       | 2.70 | 2.30 | 1.8        | 15.95   | 14.49   | 12.95  |

† Terminal solder lugs are on same side

\* Triad cross is for reference only

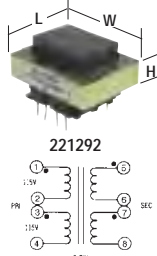
## Split-Bobbin Power Transformers (2.5 to 19.2VA)

★ Web Code: LBK

Non-concentrically wound with primaries and secondaries side-by-side providing low capacitive coupling.

- Primary: 115/230VAC, 50-60Hz
- PC terminal pin spacing for accurate placement

\* Triad cross is for reference only



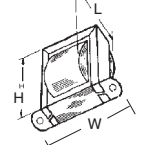
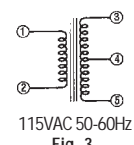
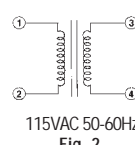
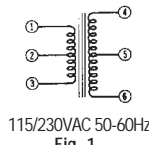
| Part No. | Product No. | Triad Cross * | Input Voltage | VA   | Individual Output | Parallel Output | Series Output  | Dimensions |      |      | Wt. (lbs.) | Pricing |        |        |
|----------|-------------|---------------|---------------|------|-------------------|-----------------|----------------|------------|------|------|------------|---------|--------|--------|
|          |             |               |               |      |                   |                 |                | L"         | W"   | H"   |            | 1       | 10     | 100    |
| 221292   | DSW-312     | FS12200       | 115/230       | 2.5  | 6.3V @ .20A       | 6.3V @ .40A     | 12.6VCT @ .20A | 1.38       | 1.13 | 1.19 | 0.3        | \$6.95  | \$6.25 | \$5.59 |
| 102534   | XFR1205SB   | FS12500       | 115/230       | 6.3  | 6.3V @ .50A       | 6.3V @ 1.0A     | 12.6VCT @ .50A | 1.32       | 1.64 | 1.38 | 0.4        | 7.95    | 6.95   | 6.25   |
| 102518   | XFR1602SB   | FS16150       | 115/230       | 2.4  | 8V @ .15A         | 8V @ .30A       | 16VCT @ .15A   | 1.17       | 1.40 | 1.20 | 0.3        | 4.95    | 4.49   | 3.95   |
| 116089   | 14A-2.5R-2Y | Signal        | 118/230       | 2.5  | 12V @ .20A        | 12V @ .40A      | 24VCT @ .10A   | 1.62       | 1.31 | 1.12 | 0.25       | 5.95    | 5.35   | 4.79   |
| 102593   | XFR2405SB   | FS24500       | 115/230       | 12.0 | 12V @ .50A        | 12V @ 1.0A      | 24VCT @ .50A   | 1.58       | 1.90 | 1.46 | 0.7        | 7.95    | 6.95   | 5.95   |
| 148559   | XFR3603SB   | FS36350       | 115/230       | 12.6 | 18V @ .35A        | 18V @ .70A      | 36VCT @ .35A   | 1.59       | 1.91 | 1.46 | 0.7        | 7.95    | 6.95   | 5.95   |
| 209015   | ST-6-48     | —             | 115           | 19.2 | 24V @ .40A        | 24V @ .80A      | 48VCT @ .40A   | 1.88       | 2.25 | 1.40 | 0.8        | 5.95    | 5.35   | 4.79   |

## Power Transformers (7.6 to 288VA)

★ Web Code: JAM

Power transformers have both single and dual-voltage input and center-tapped outputs. This makes them the perfect choice for power supply design or for use in transformer, rectifier and filter circuits.

- Primary: 115VAC or 115/230VAC, 50-60Hz



| Part No. | Product No.             | Triad Cross <sup>#</sup> | Primary Color Code |                     |        | VA    | Secondary     |        |                     | Lead Type | Fig. | Dimensions |      |      | Wt. (lbs.) | Pricing |        |        |        |
|----------|-------------------------|--------------------------|--------------------|---------------------|--------|-------|---------------|--------|---------------------|-----------|------|------------|------|------|------------|---------|--------|--------|--------|
|          |                         |                          |                    |                     |        |       | Voltage       |        | Color Code          |           |      | L"         | W"   | H"   |            | 1       | 10     | 100    |        |
| 102163   | XFR6102 <sup>Ⓜ</sup>    | F314X                    | Black              | Yellow <sup>*</sup> | Red    | 7.6   | 6.3VCT @ 1.2A | White  | Black <sup>*</sup>  | White     | Wire | 1          | 1.84 | 2.40 | 1.67       | 0.8     | \$6.95 | \$6.25 | \$4.95 |
| 105523   | XFR0910 <sup>+</sup>    | —                        | Black              | White <sup>*</sup>  | Red    | 9.0   | 9VCT @ 1A     | Blue   | Black <sup>*</sup>  | Blue      | Wire | 1          | 1.82 | 2.43 | 1.67       | 0.7     | 6.95   | 6.25   | 5.59   |
| 105524   | XR082-91-R <sup>Ⓜ</sup> | —                        | Black              | White <sup>*</sup>  | Red    | 9.0   | 9VCT @ 1A     | Blue   | Black <sup>*</sup>  | Blue      | Wire | 1          | 1.82 | 2.43 | 1.67       | 0.7     | 7.95   | 7.19   | 5.95   |
| 221400   | P-8657 <sup>Ⓜ</sup>     | F218X                    | Black              | —                   | Black  | 24.0  | 12VAC @ 2A    | White  | —                   | White     | Wire | 2          | 1.89 | 2.75 | 1.99       | 1.3     | 9.95   | 8.95   | 7.95   |
| 221356   | P-8658                  | F219X                    | Black              | —                   | Black  | 48.0  | 12VAC @ 4A    | White  | —                   | White     | Wire | 2          | 2.25 | 4.00 | 2.63       | 2.3     | 12.95  | 11.49  | 8.95   |
| 29226    | XFR122 <sup>Ⓜ</sup>     | F44X                     | Yellow             | —                   | Yellow | 25.2  | 12.6VCT @ 2A  | Blue   | Red <sup>*</sup>    | Black     | Wire | 3          | 2.41 | 2.79 | 1.99       | 1.5     | 13.95  | 12.49  | 9.95   |
| 102155   | XFR1220 <sup>Ⓜ</sup>    | F344X                    | Black              | Yellow <sup>*</sup> | Red    | 25.2  | 12.6VCT @ 2A  | White  | Black <sup>*</sup>  | White     | Wire | 1          | 2.35 | 2.32 | 1.97       | 1.5     | 13.95  | 12.49  | 9.95   |
| 149771   | XFR1240 <sup>Ⓜ</sup>    | F3181U                   | Black              | Red <sup>*</sup>    | Yellow | 50.4  | 12.6VCT @ 4A  | White  | Black <sup>*</sup>  | White     | Wire | 1          | 2.45 | 3.20 | 2.25       | 2.2     | 14.95  | 13.49  | 10.95  |
| 102121   | XFR124 <sup>Ⓜ</sup>     | F181U                    | Black              | —                   | Black  | 50.4  | 12.6VCT @ 4A  | White  | Black <sup>*</sup>  | White     | Wire | 3          | 2.45 | 3.21 | 2.26       | 2.7     | 14.95  | 13.49  | 10.95  |
| 105532   | XFR1810 <sup>Ⓜ</sup>    | —                        | Blue               | Red <sup>*</sup>    | Black  | 18.0  | 18VCT @ 1A    | Yellow | Black <sup>*</sup>  | Yellow    | Wire | 1          | 2.20 | 2.81 | 1.99       | 1.2     | 9.95   | 8.95   | 6.95   |
| 149957   | XFR1820 <sup>Ⓜ</sup>    | —                        | Black              | Red <sup>*</sup>    | Yellow | 36.0  | 18VCT @ 2A    | White  | Black <sup>*</sup>  | White     | Wire | 1          | 2.25 | 3.15 | 2.71       | 1.8     | 11.95  | 10.95  | 8.95   |
| 221382   | P8396 <sup>Ⓜ</sup>      | —                        | Black              | —                   | Black  | 9.6   | 24VCT @ 0.4A  | White  | Black <sup>*</sup>  | White     | Wire | 3          | 1.63 | 2.80 | 1.97       | 0.6     | 7.95   | 6.95   | 5.95   |
| 102112   | XFR2410 <sup>Ⓜ</sup>    | F346X                    | Black              | Yellow <sup>*</sup> | Red    | 24.0  | 24VCT @ 1A    | White  | Black <sup>*</sup>  | White     | Wire | 1          | 2.41 | 2.80 | 1.99       | 1.5     | 10.95  | 9.95   | 7.95   |
| 221373   | P-8662 <sup>Ⓜ</sup>     | F192X                    | Black              | —                   | Black  | 48.0  | 24VCT @ 2A    | White  | Black <sup>*</sup>  | White     | Wire | 3          | 2.44 | 3.60 | 2.23       | 2.3     | 13.95  | 12.49  | 9.95   |
| 112513   | XFR242N <sup>Ⓜ</sup>    | F229X                    | Black              | —                   | Black  | 48.0  | 24VAC @ 2A    | White  | —                   | White     | Wire | 2          | 2.33 | 3.16 | 2.28       | 1.8     | 13.95  | 12.49  | 9.95   |
| 221365   | P-8663 <sup>Ⓜ</sup> ↑   | F193U                    | —                  | —                   | —      | 96.0  | 24VCT @ 4A    | —      | —                   | —         | Lug  | 3          | 2.81 | 2.94 | 4.00       | 4.0     | 19.95  | 17.95  | 15.95  |
| 221411   | P-8666 <sup>Ⓜ</sup> ↑   | F226U                    | —                  | —                   | —      | 288.0 | 24VCT @ 12A   | —      | —                   | —         | Lug  | 3          | 4.63 | 3.75 | 4.63       | 11.2    | 54.95  | 49.95  | 44.95  |
| 99654    | XFR242 <sup>Ⓜ</sup>     | —                        | Red                | —                   | Red    | 49.2  | 24.6VCT @ 2A  | Blue   | Yellow <sup>*</sup> | Blue      | Wire | 3          | 2.44 | 3.22 | 2.30       | 2.5     | 13.95  | 12.49  | 9.95   |
| 102104   | XFR2520 <sup>Ⓜ</sup>    | F341X                    | Black              | White <sup>*</sup>  | Red    | 50.4  | 25.2VCT @ 2A  | Orange | Black <sup>*</sup>  | Orange    | Wire | 1          | 2.45 | 3.22 | 2.26       | 2.8     | 13.95  | 12.49  | 9.95   |
| 149797   | XFR2820 <sup>Ⓜ</sup>    | F3185U                   | Black              | Red <sup>*</sup>    | Yellow | 56.0  | 28VCT @ 2A    | White  | Black <sup>*</sup>  | White     | Wire | 1          | 2.45 | 3.22 | 2.26       | 2.3     | 13.95  | 12.49  | 9.95   |

† Solder terminals

\* Center tap

# Triad cross is for reference only

★ For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

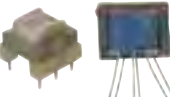
## PC Mount Modem Coupling Transformers

125357: • Core type: EI-14

- Insulation resistance: 100MΩ
- ±20% impedance matching and DC resistance matching
- Hipot tested: 1000VAC • Vacuum wax impregnated

117760:

- Dielectric strength: 1250VAC • Insertion loss: 2.50dB @ 1kHz



| Part No. | Product No.  | Impedance (Ω) |           | Resistance (Ω) |           | Pricing |        |        |
|----------|--------------|---------------|-----------|----------------|-----------|---------|--------|--------|
|          |              | Primary       | Secondary | Primary        | Secondary | 1       | 10     | 100    |
| 125357   | XFR6006A14-R | 600CT         | 600CT     | 65             | 55        | \$2.25  | \$1.95 | \$1.75 |
| 117760   | 671-8014     | 600           | 600       | 108            | 120       | 2.95    | 2.75   | 2.49   |

## TRIAD Low Frequency Current Sensing Transformer

May be used to monitor current 0.1-30A @ frequencies 50-400Hz.

- Turns ratio: 1:500 • Typical output: 110mV/amp
- Hi-pot: 500V • Burden resistor: 60Ω

| Part No. | Mfr. Part No. | Sen DCR  | Primary DCR | 1      | 10     | 100    |
|----------|---------------|----------|-------------|--------|--------|--------|
| 627591   | CSE187L       | 21Ω max. | 250μΩ max.  | \$2.95 | \$2.75 | \$2.49 |

## TRIAD Current Sensing Transformer

- Frequency range: 20-200kHz • Min. inductance: 3.5mH
- Primary is inserted thru hole in casing
- Arrow side of primary conductor has same polarity as pin #1

| Part No. | Mfr. Part No. | DCR        | Primary Arms | 1      | 10     | 100    |
|----------|---------------|------------|--------------|--------|--------|--------|
| 627621   | CST306-1A     | 0.34Ω max. | 35           | \$3.95 | \$3.59 | \$3.25 |

## 500 to 2000VA Variable Transformers

- Input: 110VAC or 220VAC
- Power: 500, 1000 or 2000VA
- Output: 0-240VAC
- Banana/screw input terminals
- Universal US/European output plugs
- Lighted on/off power switch



| Part No. | Fuse                 | Size (W" x D" x H") | Wt. (lbs.) |
|----------|----------------------|---------------------|------------|
| 121276   | 3A/250V (P/N 69439)  | 5.3 x 7.3 x 7.0     | 10.4       |
| 129008   | 5A/250V              | 9.4 x 6.5 x 7.7     | 14.8       |
| 152582   | 10A/250V (P/N 69462) | 9.0 x 7.0 x 7.7     | 19.8       |

| Part No. | Description     | 1        | 10      | 50      |
|----------|-----------------|----------|---------|---------|
| 121276   | 500VA trans. R  | \$109.95 | \$99.95 | \$89.95 |
| 129008   | 1000VA trans. R | 139.95   | 124.95  | 114.95  |
| 152582   | 2000VA trans. R | 219.95   | 199.95  | 179.95  |

## 320VA Variable AC Transformer

- Input voltage: 110VAC @ 50-60Hz
- Matching input/output terminals: P/N 103668 & 109112 (disconnect .25" solderless terminals), pg 91
- Maximum current: 2.5A
- Shaft length: 0.5"
- Size: 2.8"Dia. x 2.1"H • Panel mount
- Weight: 2.5 lbs. • One-year warranty



Includes: 3 disconnect .25" solderless terminals

| Part No. | Product No. | 1       | 10      | 50      |
|----------|-------------|---------|---------|---------|
| 149324   | PSV-203-R-R | \$59.95 | \$53.95 | \$47.95 |

\*Variable Transformers Online — Enter Web Code MAR

## 6kV-7.4kV High Voltage Power Supply

- Input voltage range: 113VAC to 132VAC
- Input lead wires: 22 AWG UL1015, 7.5"L; AC hot (black), AC COM (white), HV RTN (green)
- Output voltage: 6.0kV to 7.4kV A@ 120VAC
- Output lead wires: 22 AWG UL3239, 10" (pink)
- UL94V-0 rated encapsulant filled epoxy • Size: 3.0"L x 1.2"W x 1.0"H



| Part No. | Product No. | Description               | 1       | 10      | 50      | 100    |
|----------|-------------|---------------------------|---------|---------|---------|--------|
| 2100136  | CS2080A3    | High voltage power supply | \$14.95 | \$13.49 | \$11.95 | \$9.95 |

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 197.

## TRIAD PC Mount Data/Voice Dual Transformer

- Frequency range: data voice: 300 – 3500Hz; data: 800 to 3500Hz
- Trans-hybrid loss: 50dB
- Dielectric strength FCC68.304: 1500V • Power level: -45dBm to +7dBm
- Meets FCC part 68.310: 60dB min., 200-1000Hz; 45dB min., 1000-4000Hz



| Part No. | Mfr. Part No. | Impedance (Ω) |           | DC Current (mA) max. | Typical Loss dB |        | Pricing |        |        |
|----------|---------------|---------------|-----------|----------------------|-----------------|--------|---------|--------|--------|
|          |               | Primary       | Secondary |                      | Insertion       | Return | 1       | 10     | 50     |
| 630475   | TY-300P       | 600 (4W)      | 600/600   | 0                    | 0.8             | 30     | \$5.95  | \$5.35 | \$4.79 |

## TRIAD PC Mount Audio Transformer

- Impedance matching: 10% over frequency range
- 6-pin PC mount • Output: 100mW
- Impedance (Ω): 600CT/600CT
- Primary DC Unbalance: 15mA



| Part No. | Mfr. Part No. | Dimensions (W x D x H) | 1      | 10     | 100    |
|----------|---------------|------------------------|--------|--------|--------|
| 630459   | TY-145P-R     | 13/16" x 9/32" x 5/8"  | \$3.95 | \$3.49 | \$2.95 |

## Current Sensing Transformer

- Frequency range: 10-50 kHz
- Inductance: 5mH
- Sensitivity current (I<sub>in</sub>): 1A
- Terminating resistor: 50Ω
- Turns: 60
- Sensitivity voltage (V<sub>out</sub>): 1V
- Max. current: 300mA



| Part No. | Product No. | Dimensions (W x D x H) | 1      | 10     | 100    |
|----------|-------------|------------------------|--------|--------|--------|
| 164718   | MTC30101-R  | 0.7" x 0.46" x 0.8"    | \$2.49 | \$2.25 | \$1.95 |

\*Audio Transformers Online — Enter Web Code SAJ

## Class 1 Current Transformer

- Maximum voltage: 660VAC
- Frequency: 50-60Hz
- Ratio: 200A/5A; 5VA
- Size: 2.95"W x 1.70"D x 3.36"H
- Weight: 1.1 lbs. • Power: 5VA



| Part No. | Product No. | 1      | 10     | 100    |
|----------|-------------|--------|--------|--------|
| 174887   | MSQ30-R     | \$7.95 | \$6.95 | \$6.25 |

## 300VA Isolation Transformer 120VAC to 120VAC

- Input connector: 5.5' cord with 2-prong plug
- Input voltage: 120VAC @ 60Hz
- Output voltage: 120VAC @ 2.5A (isolated)
- Size: 3.2"W x 4.6"D x 4.2"H • Weight: 7.0 lbs.



| Part No. | Product No. | 1       | 10      | 100     |
|----------|-------------|---------|---------|---------|
| 181315   | ITR300      | \$39.95 | \$35.95 | \$31.95 |

## 550VA Variable AC Transformer

- Input voltage: 110VAC @ 60Hz
- Output voltage: 0-140VAC
- Rated current: 5A • Panel mount
- Input/output terminals: binding post with 0.188" diameter post
- Size: 4.3"Dia. x 4.0"H
- Weight: 6.8 lbs.
- One-year warranty



| Part No. | Product No. | 1        | 10      | 50      |
|----------|-------------|----------|---------|---------|
| 152937   | PSV-264-R-R | \$109.95 | \$99.95 | \$89.95 |

## EMI Suppression Cores with Case

Reduce Electromagnetic Interference (EMI) with a snap of these suppression cores around a power cord or data cord. Easy to install and an affordable way to reduce EMI without redesigning your product.



- Impedance at 100MHz between 75-225Ω min.
- Color: black (except P/N 2095402: white)

### Round

| Part No.  | InDia. | OutDia. | Length | 1      | 10     | 100    |
|-----------|--------|---------|--------|--------|--------|--------|
| 218174 R  | .20"   | .64"    | 1.15"  | \$1.25 | \$ .99 | \$ .75 |
| 2095402   | .30"   | .78"    | 0.77"  | 1.19   | .99    | .79    |
| 217842 R  | .34"   | .78"    | 1.40"  | 1.49   | 1.25   | .99    |
| 2081810 R | .38"   | 1.0"    | 0.65"  | 1.25   | 1.09   | .89    |
| 2094979 R | .51"   | .89"    | 1.42"  | 1.95   | 1.75   | 1.49   |

### Square

| Part No.  | InDia. | Width | Height | Length | 1      | 10     | 100    |
|-----------|--------|-------|--------|--------|--------|--------|--------|
| 2094987 R | .20"   | .55"  | .59"   | 1.40"  | \$1.49 | \$1.25 | \$1.09 |
| 1952901   | .25"   | .70"  | .77"   | 1.30"  | 1.95   | 1.59   | 1.25   |
| 1536958 R | .40"   | .87"  | .87"   | 1.27"  | 1.95   | 1.75   | 1.49   |

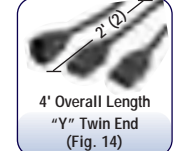
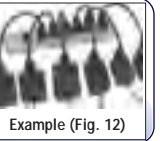
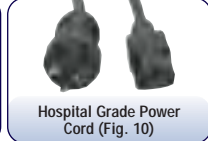
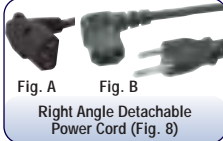
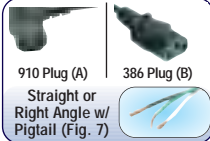
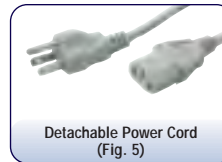
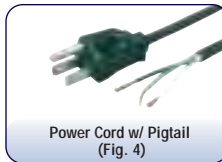
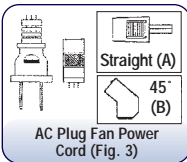
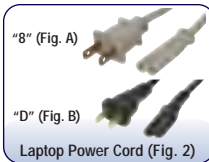
## International Step-Up/ Step-Down Autotransformer

- Input voltage: 110/200/220/240V
- Output voltage: 110/220V
- Wattage: 80 watts continuous/ 100 watts intermittent
- On/off switch
- Fuse protected
- Two free spare fuses • CE certification
- European to US adapter on power cable
- Universal European/US output receptacles
- Dimension: 5.2"L x 3.7"W x 3.5"H

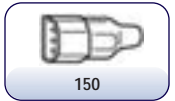
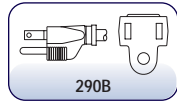


| Part No. | Product No. | 1       | 10      | 25      |
|----------|-------------|---------|---------|---------|
| 2082599  | VC-100      | \$14.95 | \$13.49 | \$11.95 |





## Plug Detail – Industry Standard Designations



| AWG | Volts | Amps | VA   |
|-----|-------|------|------|
| 18  | 125   | 10   | 1250 |
| 16  | 125   | 12   | 1500 |
| 14  | 125   | 15   | 1875 |

JAMECO ValuePro

## 2 & 3-Conductor Fan, Pigtail, Detachable & Hospital Grade Power Cords

- Molded connectors
- Excellent resistance to jacket abrasion
- Voltage rating: 300 volts
- Temperature: -20°C to +60°C

### 2-Conductor Line Cords with Pigtail

| Part No. | Product No. | Mfr. | Wt. | Fig. | Length | Color | Cond | Type* | Pricing |        |        |        |
|----------|-------------|------|-----|------|--------|-------|------|-------|---------|--------|--------|--------|
|          |             |      |     |      |        |       |      |       | 1       | 10     | 50     | 100    |
| 2120188  | 444010-4    | JVP  | .15 | 1A   | 4'     | Black | 18/2 | SPT-2 | \$1.95  | \$1.75 | \$1.49 | \$1.25 |
| 152187   | 17106BG     | JVP  | .20 | 1    | 6'     | Beige | 18/2 | SPT-2 | 2.25    | 1.99   | 1.85   | 1.69   |
| 124434   | ST008       | JVP  | .16 | 1    | 6'     | Black | 18/2 | SPT-2 | 2.25    | 1.99   | 1.85   | 1.69   |
| 42042    | SY-001-R    | JVP  | .18 | 1A   | 6'     | Black | 18/2 | SPT-2 | 2.49    | 2.25   | 1.95   | 1.79   |

### 2-Conductor "8" Style Power Cords for Laptops and Power Supplies

|        |       |     |     |    |    |       |      |       |        |        |        |        |
|--------|-------|-----|-----|----|----|-------|------|-------|--------|--------|--------|--------|
| 355944 | VW-1G | JVP | .30 | 2A | 6' | Gray  | 18/2 | SPT-2 | \$1.75 | \$1.59 | \$1.39 | \$1.25 |
| 189587 | VW-1  | JVP | .30 | 2A | 6' | Black | 18/2 | SPT-2 | 2.69   | 2.39   | 2.19   | 1.95   |

### 2-Conductor "D" Style Power Cord for Laptops and Power Supplies

|        |          |     |     |    |    |       |      |       |        |        |        |        |
|--------|----------|-----|-----|----|----|-------|------|-------|--------|--------|--------|--------|
| 200791 | LL114039 | JVP | .30 | 2B | 6' | Black | 18/2 | SPT-2 | \$1.95 | \$1.79 | \$1.59 | \$1.39 |
|--------|----------|-----|-----|----|----|-------|------|-------|--------|--------|--------|--------|

### 2-Conductor AC Plug Fan Power Cords

|         |       |     |     |    |    |       |      |       |        |        |        |        |
|---------|-------|-----|-----|----|----|-------|------|-------|--------|--------|--------|--------|
| 1952572 | FACS4 | JVP | .40 | 3A | 6' | Black | 18/2 | SPT-2 | \$2.95 | \$2.69 | \$2.39 | \$2.19 |
| 1952581 | FAC45 | JVP | .40 | 3B | 6' | Black | 18/2 | SPT-2 | 2.95   | 2.69   | 2.39   | 2.19   |

### 3-Conductor Power Cords with Pigtail (Unshielded) 290 Plug

|         |           |     |     |   |      |       |      |     |        |        |        |        |
|---------|-----------|-----|-----|---|------|-------|------|-----|--------|--------|--------|--------|
| 38009   | 17237     | JVP | .31 | 4 | 6'   | Gray  | 18/3 | SVT | \$3.79 | \$3.39 | \$2.95 | \$2.79 |
| 37997   | 17236     | JVP | .30 | 4 | 6'   | Black | 18/3 | SVT | 3.79   | 3.39   | 2.95   | 2.79   |
| 173810  | 17405     | JVP | .14 | 4 | 6'   | Gray  | 18/3 | SJT | 3.95   | 3.55   | 3.19   | 2.89   |
| 159410  | 17405B    | JVP | .37 | 4 | 6'   | Black | 18/3 | SJT | 3.95   | 3.55   | 3.19   | 2.89   |
| 1585514 | CPB-FL-08 | JVP | .56 | 4 | 8'   | Black | 18/3 | SVT | 4.29   | 3.85   | 3.49   | 3.19   |
| 38025   | 17238     | JVP | .42 | 4 | 8'   | Black | 18/3 | SVT | 4.49   | 3.95   | 3.55   | 2.95   |
| 339688  | 17407     | JVP | .60 | 4 | 8'   | Black | 18/3 | SJT | 4.79   | 4.39   | 3.79   | 3.39   |
| 102007  | 17535B    | JVP | .49 | 4 | 10'  | Black | 18/3 | SVT | 4.95   | 4.49   | 3.95   | 3.49   |
| 196286  | LL40378   | JVP | .80 | 4 | 10'  | Black | 16/3 | SJT | 6.95   | 6.25   | 5.59   | 4.95   |
| 166925  | 17516     | JVP | .41 | 4 | 6'7" | Black | 14/3 | SJT | 7.95   | 7.19   | 6.49   | 5.79   |
| 100272  | 17629B    | JVP | .88 | 4 | 9'   | Black | 14/3 | SJT | 8.95   | 7.95   | 7.19   | 6.49   |

† With crimped terminals (3) †† European standard insulation color code

### 3-Conductor Power Cord with Pigtail (Shielded) 910 Plug

|        |       |     |     |    |      |       |      |     |        |        |        |        |
|--------|-------|-----|-----|----|------|-------|------|-----|--------|--------|--------|--------|
| 339995 | 17751 | JVP | .49 | 7A | 6'7" | Black | 18/3 | SVT | \$3.95 | \$3.55 | \$3.19 | \$2.89 |
|--------|-------|-----|-----|----|------|-------|------|-----|--------|--------|--------|--------|

### 3-Conductor Detachable Power Cords (Unshielded) 290B/386A Plugs

|         |           |     |     |   |      |       |      |     |        |        |        |        |
|---------|-----------|-----|-----|---|------|-------|------|-----|--------|--------|--------|--------|
| 2081801 | 17002A    | JVP | .36 | 5 | 1'   | Black | 18/3 | SVT | \$2.95 | \$2.65 | \$2.39 | \$1.95 |
| 2082425 | 17000A    | JVP | .35 | 5 | 3'   | Black | 18/3 | SVT | 3.25   | 2.95   | 2.59   | 2.29   |
| 38041   | 17249     | JVP | .37 | 5 | 6'   | Beige | 18/3 | SVT | 3.95   | 3.59   | 3.19   | 2.49   |
| 103747  | 17248     | JVP | .34 | 5 | 6'   | Gray  | 18/3 | SVT | 3.95   | 3.59   | 3.19   | 2.49   |
| 38050   | 17250     | JVP | .36 | 5 | 6'   | Black | 18/3 | SVT | 3.95   | 3.59   | 3.25   | 2.95   |
| 132118  | 17500     | JVP | .44 | 5 | 6'   | Black | 18/3 | SJT | 4.95   | 4.49   | 3.95   | 3.25   |
| 117584  | 17502     | JVP | .37 | 5 | 7'7" | Gray  | 18/3 | SVT | 3.95   | 3.59   | 3.25   | 2.95   |
| 2100275 | 17251B    | JVP | .37 | 5 | 7'7" | Black | 18/3 | SVT | 3.95   | 3.49   | 3.19   | 2.79   |
| 1585637 | 171096    | JVP | .60 | 5 | 8'   | Black | 18/3 | SVT | 3.95   | 3.49   | 3.19   | 2.79   |
| 171096  | 17758     | JVP | .60 | 5 | 8'   | Black | 18/3 | SJT | 4.95   | 4.49   | 3.95   | 3.49   |
| 102024  | 17501V    | JVP | .55 | 5 | 10'  | Black | 18/3 | SVT | 5.95   | 5.69   | 5.39   | 4.95   |
| 163361  | 6952299   | JVP | .33 | 5 | 14'  | Black | 18/3 | SJT | 6.95   | 6.25   | 5.59   | 4.95   |
| 340291  | 17001A    | JVP | .31 | 5 | 3'   | Black | 16/3 | SJT | 3.95   | 3.59   | 3.19   | 2.79   |
| 159361  | 17602     | JVP | .52 | 5 | 6'   | Black | 16/3 | SJT | 6.95   | 5.95   | 5.35   | 4.79   |
| 1537230 | LL34877   | JVP | .72 | 5 | 8'   | Black | 16/3 | SJT | 7.95   | 6.95   | 6.25   | 5.59   |
| 1943078 | E204241-C | JVP | .72 | 5 | 6'7" | Black | 14/3 | SJT | 6.95   | 6.25   | 5.59   | 4.95   |
| 125541  | 17504     | JVP | .72 | 5 | 6'7" | Black | 14/3 | SJT | 7.95   | 7.19   | 6.49   | 5.79   |

\* JVP = Jameco ValuePro | MWL = Mean Well | SLA = Sola | † Manufacturer Varies

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

### 3-Conductor Detachable Power Cords (Shielded) 290B/386A Plugs

| Part No. | Product No. | Mfr. | Wt. | Fig. | Length | Color | Cond | Type* | 1      | 10     | 50     | 100    |
|----------|-------------|------|-----|------|--------|-------|------|-------|--------|--------|--------|--------|
| 2082433  | 77450       | JVP  | .40 | 5    | 6'     | Gray  | 18/3 | SVT   | \$3.95 | \$3.59 | \$3.19 | \$2.95 |
| 213874   | 17660BG     | JVP  | .40 | 5    | 6'     | Beige | 18/3 | SVT   | 4.25   | 3.79   | 3.49   | 2.95   |
| 161761   | 17742       | SLA  | .40 | 5    | 6'     | Black | 18/3 | SVT   | 4.49   | 3.95   | 3.59   | 2.95   |
| 1537459  | LL6415      | JVP  | .40 | 5    | 9'10"  | Beige | 18/3 | SJT   | 4.95   | 4.49   | 3.75   | 2.75   |

### 3-Conductor Computer Power Supply Extension Cords (150/386A Plugs)

|        |            |     |     |   |     |       |      |     |        |        |        |        |
|--------|------------|-----|-----|---|-----|-------|------|-----|--------|--------|--------|--------|
| 206172 | PEC-3      | JVP | .22 | 6 | 3'  | Black | 18/3 | SJT | \$2.95 | \$2.65 | \$2.39 | \$2.19 |
| 319804 | LR94903    | JVP | .82 | 6 | 6'  | Gray  | 18/3 | SVT | 2.95   | 2.75   | 2.49   | 2.25   |
| 28468  | PEC        | JVP | .36 | 6 | 6'  | Black | 18/3 | SVT | 3.95   | 3.55   | 3.19   | 2.79   |
| 420224 | 10W1-02212 | JVP | .53 | 6 | 12' | Black | 18/3 | SVT | 5.95   | 5.39   | 4.79   | 4.25   |

### 3-Conductor Power Cords with Pigtail (Unshielded) 910 or 386 Plug

|        |       |     |     |    |       |       |      |     |        |        |        |        |
|--------|-------|-----|-----|----|-------|-------|------|-----|--------|--------|--------|--------|
| 340056 | 17537 | JVP | .37 | 7A | 9'10" | Black | 18/3 | SJT | \$4.95 | \$4.49 | \$3.95 | \$3.49 |
| 340099 | 17539 | JVP | .80 | 7A | 9'10" | Black | 16/3 | SJT | 4.95   | 4.49   | 3.95   | 3.49   |
| 340072 | 17521 | JVP | .80 | 7B | 9'10" | Black | 16/3 | SJT | 4.95   | 4.49   | 3.95   | 3.49   |

### 3-Conductor Right Angle Detachable Power Cords (Unshielded) 290B/910 Plugs

|         |           |     |     |    |      |       |      |     |        |        |        |        |
|---------|-----------|-----|-----|----|------|-------|------|-----|--------|--------|--------|--------|
| 117357  | 8120-6177 | JVP | .41 | 8B | 6'   | Gray  | 18/3 | SVT | \$3.95 | \$3.55 | \$3.19 | \$2.79 |
| 38077   | 17250R    | JVP | .54 | 8B | 6'   | Black | 18/3 | SVT | 3.95   | 3.55   | 3.19   | 2.79   |
| 2099999 | E88265    | JVP | .82 | 8A | 8'   | Black | 18/3 | SVT | 4.49   | 3.95   | 3.49   | 2.95   |
| 177384  | 17507     | JVP | .28 | 8B | 10'  | Black | 18/3 | SVT | 4.95   | 4.49   | 3.95   | 3.49   |
| 222958  | 17510     | JVP | .88 | 8B | 6'7" | Black | 14/3 | SJT | 5.95   | 5.39   | 4.79   | 4.25   |

### 3-Conductor Right Angle Detachable Power Cord (Shielded) 290B/910 Plugs

|        |       |     |     |    |      |       |      |     |        |        |        |        |
|--------|-------|-----|-----|----|------|-------|------|-----|--------|--------|--------|--------|
| 173252 | 17745 | JVP | .16 | 8B | 6'7" | Black | 18/3 | SVT | \$5.95 | \$5.39 | \$4.79 | \$4.25 |
|--------|-------|-----|-----|----|------|-------|------|-----|--------|--------|--------|--------|

### 3-Conductor Hospital Grade Power Cords (green dot)

|         |         |     |     |    |     |      |      |     |        |        |        |        |
|---------|---------|-----|-----|----|-----|------|------|-----|--------|--------|--------|--------|
| 2115434 | LL39965 | JVP | .75 | 10 | 10' | Gray | 18/3 | SJT | \$9.95 | \$8.95 | \$7.95 | \$6.95 |
| 132011  | 17006G  | JVP | .82 | 10 | 10' | Gray | 16/3 | SJT | 9.95   | 8.95   | 7.95   | 6.95   |
| 115078  | 17006   | JVP | .84 | 10 | 10' | Blk† | 16/3 | SJT | 10.95  | 9.95   | 8.95   | 7.95   |
| 1537563 | 17510HG | JVP | .82 | 9  | 10' | Gray | 14/3 | SJT | 8.95   | 7.95   | 6.95   | 5.95   |

† Blue Part No. = Limited Quantity Available

### 3-Conductor Computer Monitor Power Adapter Cord (150/386 Plugs)

|        |      |     |     |    |    |       |      |     |        |        |        |        |
|--------|------|-----|-----|----|----|-------|------|-----|--------|--------|--------|--------|
| 177448 | MPC1 | JVP | .16 | 11 | 1' | Black | 18/3 | SVT | \$2.95 | \$2.69 | \$2.39 | \$2.19 |
|--------|------|-----|-----|----|----|-------|------|-----|--------|--------|--------|--------|

### 3-Conductor Detachable Power Cords (Power Strip Saver) 290B/386 Plugs

|        |        |     |     |    |    |       |      |     |        |        |        |        |
|--------|--------|-----|-----|----|----|-------|------|-----|--------|--------|--------|--------|
| 208339 | P55-BR | JVP | .16 | 12 | 1' | Beige | 18/3 | SVT | \$2.49 | \$2.25 | \$1.95 | \$1.75 |
| 199778 | PSS-1  | JVP | .16 | 12 | 1' | Black | 18/3 | SVT | 2.95   | 2.69   | 2.39   | 2.15   |

### 3-Conductor Power Cord ("Y" Type Power Strip Saver II) 290B/386 (2) Plugs

|        |          |     |     |    |     |       |      |     |        |        |        |        |
|--------|----------|-----|-----|----|-----|-------|------|-----|--------|--------|--------|--------|
| 208347 | GPR-2006 | JVP | .38 | 13 | 22" | Black | 18/3 | SVT | \$6.95 | \$6.25 | \$5.59 | \$4.95 |
|--------|----------|-----|-----|----|-----|-------|------|-----|--------|--------|--------|--------|

### 3-Conductor Power Cord ("Y" Twin End) 150/386 (2) Plugs

|        |        |     |     |    |    |       |      |     |        |        |        |        |
|--------|--------|-----|-----|----|----|-------|------|-----|--------|--------|--------|--------|
| 340566 | 17268A | JVP | .32 | 14 | 4' | Black | 18/3 | SJT | \$6.95 | \$6.25 | \$5.59 | \$4.95 |
|--------|--------|-----|-----|----|----|-------|------|-----|--------|--------|--------|--------|

### 3-Conductor "Mickey Mouse" Style Power Supply Cords

|         |        |     |     |    |    |       |      |       |        |        |        |        |
|---------|--------|-----|-----|----|----|-------|------|-------|--------|--------|--------|--------|
| 1953559 | MMFLAT | MWL | .40 | 15 | 6' | Black | 18/3 | SPT-2 | \$2.95 | \$2.65 | \$2.39 | \$1.95 |
| 1951123 | MMPC   | MWL | .40 | 15 | 6' | Black | 18/3 | SVT   | 3.95   | 3.49   | 2.95   | 2.49   |

\* Thermoplastic Cord Jacket Type: SPT-2 (Flat): Junior duty; SVT (Round): Light service; SJT (Round): Junior service

# Power Cords, AC Receptacles, Power Entry & Line Filters

3 LEVELS OF SAVINGS  
NAME BRANDS HOUSE BRANDS FACTORY OVERRUN

JAMECO ValuePro

- 3-conductor detachable power cords
- Excellent resistance to jacket abrasion
- Cord color: black; except 1950702/172195: grey

## International Power Cords

- BSI: British Standard Institution
- Cord type: H05VVf
- Voltage rating: 300V

| Part No. | Cross Ref. No. | Country    | Agency Approvals | Cord Length | Plug Fig. | Conductors | Pricing |        |        |
|----------|----------------|------------|------------------|-------------|-----------|------------|---------|--------|--------|
|          |                |            |                  |             |           |            | 1       | 10     | 100    |
| 117911   | PCVDE-6B       | Europe     | All              | 6 ft.       | 1/A       | 3/0.75mm   | \$4.95  | \$4.49 | \$3.95 |
| 2081916  | GTA3RA         | Europe     | All              | 6 ft.       | 2/A       | 3/0.75mm   | 4.95    | 4.49   | 3.95   |
| 1950702  | BSI1363A       | UK         | ATSA             | 6 ft.       | 3/A       | 3/1.0mm    | 4.95    | 4.49   | 3.95   |
| 174633   | 21071H5182     | UK/Ireland | BSI              | 8 ft.       | 3/A       | 3/1.0mm    | 6.95    | 6.25   | 5.59   |
| 172195   | 8120-6979      | Italy      | All              | 6 ft.       | 4         | 3/1.0mm    | 4.95    | 4.49   | 3.95   |



Fig. 1 (Straight)



Fig. 2

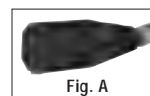


Fig. A



Fig. 3 (Right Angle, Fused)



Fig. 4

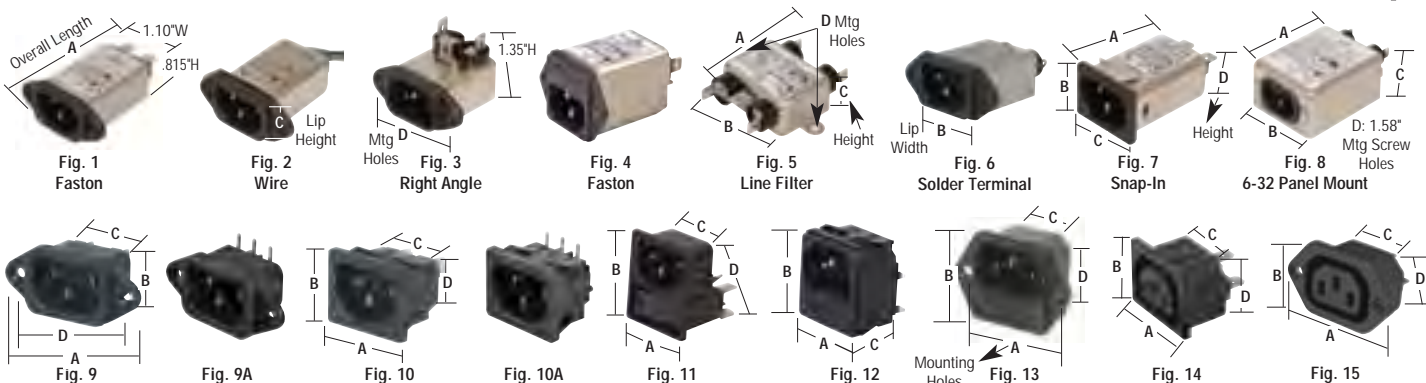
### European Agency Approvals

|         |       |    |             |       |
|---------|-------|----|-------------|-------|
| Germany | VDE   | CE | France      | LCIE  |
| Austria | DVE   | CE | Netherlands | KEMA  |
| Belgium | CEBEC | CE | Norway      | NEMKO |
| Denmark | DEMKO | CE | Sweden      | SEMKO |
| Finland | FIMKO | CE | Switzerland | SEV   |

★ Web Code: XAQ



## EMI Power Entry Filters (IEC Connector), Line Filters & AC Receptacles (IEC 320)



- Rated voltage: 115/250VAC
- Operating frequency: 50/60Hz
- Hipot rating (one minute) line to ground: 2250VDC; line to line: 1450VDC

EMI Power Entry Filter: Maximum leakage current each line to ground: @ 115VAC 60Hz: 0.20mA @ 250VAC 50Hz: 0.40mA

EMI Line Filter: Maximum leakage current each line to ground: @ 115VAC 60Hz: 0.25mA; 1.0mA (10000pF) @ 250VAC 50Hz: 0.45mA; 2.0mA (10000pF)

★ Web Code: ACR

| Part No. | Mfr.      | Product No.       | Description   | Fig. | Current (A) | Hipot (VDC) | Terminals | Terminal Size | Agency Approvals | Dimension (in.) |       |       |       | Pricing |        |        |
|----------|-----------|-------------------|---|------|-------------|-------------|-----------|---------------|------------------|-----------------|-------|-------|-------|---------|--------|--------|
|          |           |                   |   |      |             |             |           |               |                  | A               | B     | C     | D     | 1       | 10     | 100    |
| 1951511  | Delta†    | 01GEEG3E (1ED1)   | Power entry filter, straight (screw flanged)        | 1    | 1           | 2250        | Faston    | 0.25"         | UL/CSA/VDE       | 2.20            | 1.19  | 0.87  | 1.58  | \$3.49  | \$2.95 | \$2.49 |
| 210913   | Delta†    | 01GEEW3E (1ED8)   | Power entry filter, straight (screw flanged)        | 2    | 1           | 2250        | 4" Wires  | Wire          | UL/CSA/VDE       | 1.89            | 1.19  | 0.86  | 1.58  | 3.95    | 3.49   | 2.95   |
| 1951529  | Delta     | 01DEEG3V          | Power entry filter, rt. angle (screw flanged)       | 3    | 1           | 2250        | Faston    | 0.25"         | UL/CSA/VDE       | 1.64            | 1.19  | 0.87  | 1.58  | 2.95    | 2.49   | 1.95   |
| 1172613  | Tyco      | 1EGG1-2R          | Pwr entry filter, straight, fused (screw flanged)   | 4    | 1           | 2250        | Faston    | 0.25"         | UL/CSA/VDE       | 1.62            | 1.29  | 1.44  | 1.27  | 3.95    | 3.59   | 3.39   |
| 1951545  | Delta     | 01DKAG5           | Line filter   | 5    | 1           | 2250        | Faston    | 0.25"         | UL/CSA/VDE       | 2.92            | 1.98  | 0.87  | 2.39  | 3.49    | 2.95   | 2.25   |
| 395647   | Corcom    | 2VK1              | Line filter   | 5    | 2           | 2250        | Faston    | 0.25"         | UL/CSA/VDE       | 3.00            | 1.74  | 0.89  | 2.39  | 3.95    | 3.49   | 2.95   |
| 107326   | Delta     | 03DEEG3B (3EF1F)  | Power entry filter, straight (screw flanged)        | 1    | 3           | 2250        | Faston    | 0.25"         | UL/CSA/VDE       | 2.20            | 1.19  | 0.87  | 1.58  | 3.95    | 3.49   | 2.95   |
| 667438   | ValuePro  | YB03A1 (3EF1F)    | Power entry filter, straight (screw flanged)        | 1    | 3           | 2250        | Faston    | 0.25"         | UL/CSA/VDE       | 2.23            | 1.19  | 0.89  | 1.58  | 4.95    | 4.49   | 3.95   |
| 150616   | ValuePro  | 03AC1R            | Power entry filter, straight (screw flanged)        | 6    | 3           | 2250        | Solder    | 0.16"         | UL/CSA/VDE       | 2.05            | 1.19  | 0.89  | 1.58  | 4.95    | 4.49   | 3.95   |
| 1951537  | Delta†    | 03GEEW3E-R (3ED8) | Power entry filter, wire (screw flanged)            | 2    | 3           | 2250        | 4" Wire   | Wire          | UL/CSA/VDE       | 1.90            | 1.19  | 0.87  | 1.58  | 4.95    | 4.49   | 3.95   |
| 1951553  | Delta†    | 03GENG3E-R        | Power entry filter (snap-in flanged)                | 7    | 3           | 2250        | Faston    | 0.25"         | UL/CSA/VDE       | 2.20            | 0.95  | 1.22  | 0.82  | 3.95    | 3.59   | 3.39   |
| 1951561  | Delta     | 03DBG5 (3EB1)     | Line filter   | 5    | 3           | 2250        | Faston    | 0.25"         | UL/CSA/VDE       | 2.48            | 1.73  | 0.76  | 2.13  | 3.95    | 3.59   | 3.39   |
| 1954720  | Delta     | 04BEEG3S          | Power entry filter, straight, fused (screw flanged) | 1    | 4           | 2250        | Faston    | 0.25"         | UL/CSA/VDE       | 2.26            | 1.19  | 1.26  | 1.40  | 3.95    | 3.59   | 3.39   |
| 1951570  | Delta†    | 05DRDG3S (5ER7)   | Power entry filter, 6-32 threaded panel mount       | 8    | 5           | 2250        | Faston    | 0.25"         | UL/CSA/VDE       | 3.15            | 1.97  | 1.28  | 1.58  | 4.95    | 4.49   | 3.95   |
| 667462   | ValuePro  | YB06T1            | Power entry filter, straight (screw flanged)        | 1    | 6           | 2250        | Solder    | 0.25"         | UL/CSA/VDE       | 2.10            | 1.19  | 0.89  | 1.58  | 4.95    | 4.49   | 3.95   |
| 1951633  | ValuePro† | YB06AIRR          | Power entry filter, straight (screw flanged)        | 1    | 6           | 2250        | Faston    | 0.25"         | UL/CSA/VDE       | 2.20            | 1.19  | 0.89  | 1.58  | 4.95    | 4.49   | 3.95   |
| 1951588  | Delta     | 06DEEG3V          | Power entry filter, right angle (screw flanged)     | 3    | 6           | 2250        | Faston    | 0.25"         | UL/CSA/VDE       | 1.64            | 1.19  | 0.87  | 1.58  | 4.95    | 4.49   | 3.95   |
| 1951596  | Delta†    | 10GEEG3C          | Power entry filter, straight (screw flanged)        | 1    | 10          | 2250        | Faston    | 0.25"         | UL/CSA/VDE       | 2.20            | 1.19  | 0.87  | 1.58  | 4.95    | 4.49   | 3.95   |
| 1951609  | Delta     | 10ME3(S)          | Power entry filter, right angle (PC mount)          | 3    | 10          | 2250        | Solder    | 0.16"         | UL/CSA/VDE       | 1.64            | 1.19  | 0.87  | 1.58  | 4.95    | 4.49   | 3.95   |
| 1951617  | Delta     | 15DEEG3HA(D)      | Power entry filter, straight (screw flanged)        | 1    | 15          | 2250        | Faston    | 0.25"         | UL/CSA/VDE       | 2.42            | 1.19  | 0.87  | 1.58  | 5.95    | 5.35   | 4.79   |
| 165016   | OKAYA††   | SUP-J15G-E2       | Power entry filter, straight (screw flanged)        | 6    | 15          | ††          | Solder    | 0.16"         | UL/CSA/VDE       | 2.20            | 1.21  | 0.89  | 1.58  | 5.95    | 5.35   | 4.79   |
| 147901   | Various   | 701R              | AC power inlet, male (screw flanged)                | 9    | 15          | 250         | Faston    | 0.187"        | UL/CSA/VDE       | 1.97            | 0.76  | 1.06  | 1.58  | .99     | .79    | .65    |
| 16652    | ValuePro  | JR101R            | AC power inlet, male (screw flanged)                | 9    | 15          | 250         | Faston    | 0.25"         | UL/CSA/VDE       | 1.97            | 0.76  | 1.06  | 1.58  | 1.09    | .89    | .69    |
| 2114010  | Adam Tech | IEC-A-4R          | AC pwr inlet, M RA (screw flanged, PC mount)        | 9A   | 15          | 250         | Solder    | 0.071"        | UL/CSA/VDE       | 1.968           | 0.886 | 1.055 | 0.756 | .59     | .49    | .39    |
| 147109   | Various   | 42R02             | AC power inlet, male (snap-in)                      | 10   | 15          | 250         | Faston    | 0.25"         | UL/CSA/VDE       | 1.23            | 0.95  | 1.04  | 0.77  | .99     | .79    | .65    |
| 2114028  | Adam Tech | IEC-J-4R          | AC pwr inlet, M RA (snap-in, PC mount)              | 10A  | 15          | 250         | Solder    | 0.071"        | UL/CSA/VDE       | 1.22            | 0.945 | 1.043 | 0.787 | .65     | .55    | .45    |
| 2095525  | ValuePro  | IEC-GS-1-100      | AC pwr inlet, male w/ sw. & fuse folder (snap-in)   | 11   | 15          | 250         | Faston    | 0.187"        | UL/CSA/VDE       | 1.20            | 0.97  | 0.77  | 1.83  | 2.49    | 2.25   | 1.95   |
| 117445   | ValuePro# | 0717R             | AC power inlet, male w/ fuse chamber (snap-in)      | 12   | 10          | 250         | Faston    | 0.187"        | UL/CSA/VDE       | 1.18            | 1.30  | 1.05  | 1.20  | 1.95    | 1.79   | 1.59   |
| 265528   | ValuePro# | WS-044R           | AC power inlet, male w/ fuse chamber (screw)        | 13   | 10          | 250         | Faston    | 0.185"        | UL/CSA/VDE       | 1.40            | 1.28  | 1.06  | 1.21  | 1.49    | 1.35   | 1.19   |
| 1954640  | Various   | K2415             | AC power inlet, female (snap-in)                    | 14   | 15          | 250         | Faston    | 0.187"        | UL/CSA/VDE       | 1.38            | 0.98  | 1.26  | 1.10  | 1.49    | 1.25   | .99    |
| 1954658  | Various   | K2414             | AC power inlet, female (screw flanged)              | 15   | 15          | 250         | Faston    | 0.187"        | UL/CSA/VDE       | 1.97            | 1.14  | 1.26  | 0.95  | 1.75    | 1.49   | 1.25   |

† High Performance; †† Increased filtering; ††† Added bleed resistor; ††† More safety agencies

Continued on next page

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 197.

## EMI Power Entry Filters (IEC Connector), Line Filters & AC Receptacles (IEC 320) Continued

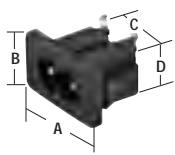


Fig. 16

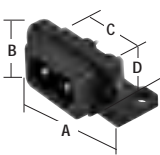


Fig. 17

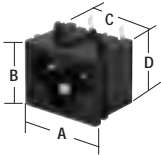


Fig. 18

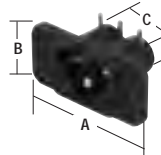


Fig. 19

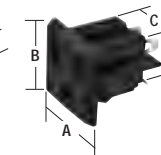


Fig. 20

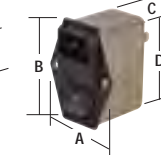


Fig. 21

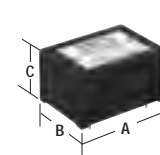


Fig. 22



Fig. 23

\* Web Code: ACR

| Part No. | Mfr.      | Mfr. Part No. | Description  | Fig. | Current (A) | Hipot (VDC) | Terminals | Terminal Size | Agency Approvals | Dimension (in.) |       |       |       | Pricing |        |        |
|----------|-----------|---------------|--|------|-------------|-------------|-----------|---------------|------------------|-----------------|-------|-------|-------|---------|--------|--------|
|          |           |               |  |      |             |             |           |               |                  | A               | B     | C     | D     | 1       | 10     | 100    |
| 2114052  | Adam Tech | IEC-NA-4-     | AC pwr inlet, mini, M RA (snap-in, PC mount)       | 16   | 15          | 250         | Solder    | 0.098"        | UL/CSA/VDE       | 1.102           | 0.63  | 1.748 | 0.492 | \$ .55  | \$ .45 | \$ .39 |
| 2114061  | Adam Tech | IEC-ND-4-     | AC pwr inlet, mini, M RA (scrw flngd, panel mnt)   | 17   | 15          | 250         | Solder    | 0.098"        | UL/CSA/VDE       | 1.378           | 0.571 | 0.811 | 0.401 | 2.49    | 2.29   | 1.95   |
| 2114079  | Adam Tech | IEC-NH-4-     | AC pwr inlet, mini, M RA (snap-in, PC mount)       | 18   | 15          | 250         | Solder    | 0.059"        | UL/CSA/VDE       | 0.886           | 0.689 | 0.787 | 0.61  | .65     | .55    | .49    |
| 2114087  | Adam Tech | IEC-NA-A-4-   | AC pwr inlet, mini, M RA (scrw flngd, panel mnt)   | 19   | 15          | 250         | Solder    | 0.071"        | UL/CSA/VDE       | 1.543           | 0.717 | 0.787 | 0.61  | .69     | .59    | .55    |
| 2114095  | Adam Tech | NEMA-5-2-     | AC pwr outlet, NEMA receptacles (snap-in)          | 20   | 15          | 250         | Blade     | —             | UL/CSA/VDE       | 1.063           | 1.063 | 0.70  | 0.866 | .75     | .65    | .55    |
| 2114124  | Adam Tech | PLF-6DZ2KR-   | Pwr entry filter, stright, fuse & sw. (scrw flngd) | 21   | 15          | 250         | Faston    | 0.250"        | UL/CSA/VDE       | 1.968           | 2.559 | 2.394 | 1.154 | 9.95    | 8.95   | 7.95   |
| 2114108  | Adam Tech | PLF-3PC4-     | Line filter, plastic case (PC mount)               | 22   | 15          | 250         | Solder    | 0.039"        | UL/CSA/VDE       | 1.93            | 1.38  | 1.06  | —     | 6.95    | 5.95   | 5.25   |
| 2114116  | Adam Tech | PLF-3PC-      | Line filter, metal case (PC mount)                 | 23   | 15          | 250         | Solder    | 0.039"        | UL/CSA/VDE       | 0.984           | 0.984 | 0.787 | —     | 5.95    | 5.49   | 4.95   |

## For 14-16 AWG wires

## Open-Frame Linear AC-to-DC Power Supplies

• Load regulation:  $\pm 0.5\%$

• Line regulation:  $\pm 0.5\%$

• UL/CE/TUV certified

\* Web Code: MSP



2077503

| Part No. | Manufacturer | Mfr. Part No. | Output   |       | Input (VAC @ Hz) *      | Rip & Noise (mV p-p) | Size (L" x W" x H") | Pricing |         |         |
|----------|--------------|---------------|--|-------|-------------------------|----------------------|---------------------|---------|---------|---------|
|          |              |               | Voltage@Current (min-max)                          | Power |                         |                      |                     | 1       | 5       | 25      |
| 2077503  | Astec        | ACV12N5       | +12V @ 5.1A  | 61W   | 100-240 @ 47-63Hz       | 3.0                  | 7.0 x 4.87 x 2.75   | \$24.95 | \$22.49 | \$19.95 |
| 2077511  | Astec        | ACV15N4.5     | +15V @ 4.5A  | 67.5W | 100-240 @ 47-63Hz       | 3.0                  | 7.0 x 4.87 x 2.75   | 24.95   | 22.49   | 19.95   |
| 2080454  | Power One    | HBB15-1.5A    | +12V to 15V @ 1.7A/1.5A<br>-12V to 15V @ 1.7A/1.5A | 192W  | 100 or 240VAC @ 47-63Hz | 5.0                  | 7.0 x 4.88 x 2.50   | 59.95   | 53.95   | 47.95   |

\* Jumperable between 100VAC to 240VAC

## Open-Frame Medical Switching AC-to-DC Power Supplies



MPS-65

- Universal AC input/full range
- Soft-start circuit, limiting AC surge current
- Short-circuit, overload and overvoltage protection
- Load regulation:  $\pm 2.0\%$
- Volt. adjustment: 10%
- 100% full-load burn-in test
- Leakage current: 0.3mA @ 240V
- Isolation volt.: 4000VAC
- 2.9 watts/in<sup>3</sup> max.
- Working temp.: -10°C to + 60°C
- Mating connector: P/N 104732, see web



\* Web Code: JBK

| Part No. | Manufacturer | Mfr. Part No. | Output                                      |       | Input (VAC @ Hz) | Ripple & Noise (mV p-p) * | Certification | Pricing |         |         |
|----------|--------------|---------------|---|-------|------------------|---------------------------|---------------|---------|---------|---------|
|          |              |               | Voltage @ Current (min-max)                 | Power |                  |                           |               | 1       | 5       | 25      |
| 221058   | Mean Well    | MPS-45-7.5    | +7.5V @ 0-5.4A                              | 40.5W | 90-264 @ 47-440  | 100                       | UL/CUL/TUV/CE | \$23.95 | \$21.95 | \$19.95 |
| 221146   | Mean Well    | MPS-65-7.5    | +7.5V @ 0-8A                                | 60.0W | 90-264 @ 47-440  | 100                       | UL/CUL/TUV/CE | 24.95   | 23.49   | 21.95   |
| 221066   | Mean Well    | MPS-45-12     | +12V @ 0-3.7A                               | 44.4W | 90-264 @ 47-440  | 100                       | UL/CUL/TUV/CE | 21.95   | 19.95   | 17.95   |
| 221154   | Mean Well    | MPS-65-12     | +12V @ 0-5.2A                               | 62.4W | 90-264 @ 47-440  | 100                       | UL/CUL/TUV/CE | 26.49   | 24.49   | 22.49   |
| 221162   | Mean Well    | MPS-65-13.5   | +13.5V @ 0-4.7A                             | 63.5W | 90-264 @ 47-440  | 100                       | UL/CUL/TUV/CE | 23.95   | 21.95   | 19.95   |
| 221189   | Mean Well    | MPS-65-24     | +24V @ 0-2.7A                               | 64.8W | 90-264 @ 47-440  | 100                       | UL/CUL/TUV/CE | 26.49   | 24.49   | 22.49   |
| 2081721  | EOS          | LFMVL780-4000 | +5V @ 10A, +12V @ 2A, -5V @ .8A, -12V @ .8A | 80.0W | 90-240 @ 47-63   | 80                        | UL/CE         | 49.95   | 44.95   | 39.95   |

\* Primary Output

## Open-Frame Ultraminiature Switching AC-to-DC Power Supplies



OFM-0203

- 100% full-load burn-in test
- No load consumption
- Ultraminiature size and lightweight
- Short-circuit, overload, overvoltage, overtemperature protection
- Three-year warranty; except P/Ns 300433/300530: Two-year warranty
- Universal AC input/full range
- UL/CUL/TUV/CE



\* Web Code: CCQ



NFM-05

| Part No. | Manufacturer | Mfr. Part No. | Output                      |       | Size (L" x W" x H") | Load Regulation | Line Regulation | Ripple & Noise (mV p-p) * | Pricing |         |         |
|----------|--------------|---------------|-----------------------------|-------|---------------------|-----------------|-----------------|---------------------------|---------|---------|---------|
|          |              |               | Voltage @ Current (min-max) | Power |                     |                 |                 |                           | 1       | 10      | 50      |
| 694971   | Mean Well    | NFM-05-5      | +5V @ 0-1A                  | 5W    | 2.3 x 1.8 x 0.8     | $\pm 1.5\%$     | $\pm 1.0\%$     | 80                        | \$19.95 | \$17.95 | \$15.95 |
| 300281   | Mean Well    | OFM-5001      | +5V @ 0-1A                  | 5W    | 2.3 x 1.8 x 0.8     | $\pm 2.0\%$     | $\pm 0.5\%$     | 50                        | 16.95   | 14.95   | 13.95   |
| 300433   | Astrodyne    | OFM-0101      | +5V @ 0-2A                  | 10W   | 2.6 x 1.8 x 0.8     | $\pm 1.0\%$     | $\pm 1.0\%$     | 80                        | 17.95   | 15.95   | 13.95   |
| 695199   | Mean Well    | NFM-20-5      | +5V @ 0-4.4A                | 22W   | 3.0 x 2.0 x 0.8     | $\pm 1.0\%$     | $\pm 1.5\%$     | 80                        | 24.95   | 22.95   | 20.95   |
| 694989   | Mean Well    | NFM-05-12     | +12V @ 0-0.42A              | 5.04W | 2.3 x 1.8 x 0.8     | $\pm 0.5\%$     | $\pm 0.5\%$     | 150                       | 19.95   | 17.95   | 15.95   |
| 695156   | Mean Well    | NFM-15-12     | +12V @ 0-1.25A              | 15W   | 2.8 x 1.9 x 0.9     | $\pm 0.5\%$     | $\pm 0.5\%$     | 150                       | 24.95   | 22.49   | 19.95   |
| 300484   | Mean Well    | OFM-1502      | +12V @ 0-1.25A              | 15W   | 2.8 x 1.9 x 0.8     | $\pm 1.0\%$     | $\pm 0.3\%$     | 150                       | 23.95   | 21.95   | 19.95   |
| 300417   | Mean Well    | OFM-5003      | +15V @ 0-0.33A              | 5W    | 2.3 x 1.8 x 0.8     | $\pm 1.0\%$     | $\pm 0.3\%$     | 150                       | 14.95   | 12.95   | 11.95   |
| 300530   | Mean Well    | OFM-0203      | +15V @ 0-1.4A               | 20W   | 3.5 x 2.0 x 0.8     | $\pm 1.0\%$     | $\pm 0.3\%$     | 150                       | 21.95   | 19.95   | 18.49   |

\* Primary Output

Open-Frame Switching Power Supplies continued on pages 136 & 137

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above



# Open-Frame Switching AC-to-DC Power Supplies

| 3 LEVELS OF SAVINGS |              |                 |
|---------------------|--------------|-----------------|
| NAME BRANDS         | HOUSE BRANDS | FACTORY OVERRUN |

Jameco carries the full line of Mean Well Power products. For additional products visit [www.Jameco.com/meanwellproducts](http://www.Jameco.com/meanwellproducts)

## Open-Frame Switching AC-to-DC Power Supplies

\* Web Code: OSP

- Universal AC input/full range
- Short-circuit, overload and overvoltage protection
- Two-year warranty

### PFC Model Additional Features:

- Built-in active Power Factor Protection function, power factor >0.93
- Three-year warranty

For complete specifications visit [www.Jameco.com](http://www.Jameco.com)



PPS-125



USP-225

| Part No.      | Manufacturer | Mfr. Part No. | Output                      |        | Input<br>(VAC @ Hz) | Size<br>(L"xW"xH") | Mounting<br>Holes<br>(L"xW"xDia.") | Ripple &<br>Noise<br>(mV p-p)* | Load<br>Reg.<br>(±%)* | Line<br>Reg.<br>(±%)* | PFC | Certification     | Pricing |         |         |
|---------------|--------------|---------------|-----------------------------|--------|---------------------|--------------------|------------------------------------|--------------------------------|-----------------------|-----------------------|-----|-------------------|---------|---------|---------|
|               |              |               | Voltage @ Current (min-max) | Power  |                     |                    |                                    |                                |                       |                       |     |                   | 1       | 5       | 25      |
| Single Output |              |               |                             |        |                     |                    |                                    |                                |                       |                       |     |                   |         |         |         |
| 218991        | Artesyn      | NLP150L-96S3  | +3.3V @ 1-22A               | 72.6W  | 90-264 @ 47-63      | 6.8x3.8x1.3        | 6.5x3.5x0.2                        | 50                             | 2.0                   | 2.0                   | —   | UL/CSA/VDE/CE     | \$79.95 | \$74.95 | \$69.95 |
| 694452        | Mean Well    | USP-225-3.3   | +3.3V @ 0-40A               | 132W   | 90-264 @ 47-63      | 8.0x4.0x1.5        | see datasheet                      | 100                            | 1.0                   | 0.5                   | ✓   | UL/CUL/TUV/CE/CB  | 74.95   | 69.95   | 64.95   |
| 694399        | Mean Well    | USP-350-3.3   | +3.3V @ 0-70A               | 231W   | 90-264 @ 47-63      | 9.3x4.0x1.5        | see datasheet                      | 80                             | 1.0                   | 0.5                   | ✓   | UL/CUL/TUV/CE     | 129.95  | 119.95  | 109.95  |
| 229042        | Phihong      | PSA15LN3-050  | +5V @ 0-3A                  | 15W    | 90-264 @ 47-63      | 4.3x1.6x0.9        | 4.0x1.3x0.2                        | 50                             | 2.0                   | 1.0                   | —   | UL/CUL/TUV/CE     | 19.95   | 17.95   | 15.95   |
| 2081836       | CUI Inc.     | VOF-25-5      | +5V @ 4.4A                  | 25W    | 85-264 @ 47-63      | 3.5x2.0x0.9        | 3.2X1.7X0.2                        | 50                             | 5.0                   | 5.0                   | —   | UL/CUL/TUV/CE/FCC | 11.95   | 10.49   | 9.49    |
| 212354        | Mean Well    | PS-25-5       | +5V @ 0-5A                  | 25W    | 85-264 @ 47-63      | 4.2x2.4x1.1        | 3.7x2.1x0.1                        | 80                             | 2.0                   | 0.5                   | —   | UL/CUL/TUV/CE     | 14.95   | 13.95   | 12.95   |
| 210841        | Power-One    | MAP42-1005    | +5V @ 0-8A                  | 40W    | 120-240 @ 50-60     | 5.0x3.0x1.3        | 4.6x2.6x0.2                        | 50                             | 1.0                   | 0.2                   | —   | UL/CSA/TUV/CE     | 14.95   | 13.49   | 11.95   |
| 217332        | Mean Well    | PS-45-5       | +5V @ 0-8A                  | 40W    | 90-264 @ 47-440     | 5.0x3.0x1.1        | 4.6x2.6x0.2                        | 100                            | 3.0                   | 1.0                   | —   | UL/CUL/TUV/CE     | 15.95   | 14.95   | 13.95   |
| 201938        | Mean Well    | PS-65-5       | +5V @ 0-12A                 | 60W    | 90-264 @ 47-440     | 5.0x3.0x1.7        | 4.5x2.5x0.2                        | 100                            | 1.0                   | 4.0                   | —   | UL/CUL/TUV/CE     | 17.95   | 16.49   | 15.49   |
| 1586331       | Phihong      | PSA120-050-R  | +5V @ 0-15A                 | 75W    | 40-264 @ 47-63      | 5.0x3.0x1.2        | 4.5x2.5x0.2                        | 100                            | 20.0                  | 1.0                   | —   | UL/CUL/TUV/CE     | 39.95   | 36.95   | 33.95   |
| 218915        | Artesyn      | NLP110-9605   | +5V @ 0.5-15A               | 75W    | 90-264 @ 47-63      | 6.5x3.0x1.3        | 6.1x2.6x0.2                        | 50                             | 2.0                   | 2.0                   | —   | UL/CUL/CSA/VDE    | 42.95   | 39.95   | 36.95   |
| 1954439       | Mean Well    | USP-500-5     | +5V @ 0-80A                 | 400W   | 90-264 @ 47-63      | 10.0x5.0x1.6       | see datasheet†                     | 80                             | 2.0                   | 0.5                   | ✓   | UL/CUL/TUV/CE     | 199.95  | 189.95  | 179.95  |
| 219011        | Artesyn      | NLP150L-96S5  | +5.1V @ 1-22A               | 112.2W | 90-264 @ 47-63      | 6.8x3.8x1.3        | 6.5x3.5x0.2                        | 50                             | 2.0                   | 2.0                   | —   | UL/CSA/VDE/CE     | 49.95   | 44.95   | 39.95   |
| 392826        | Mean Well    | PS-25-7.5     | +7.5V @ 0-3.3A              | 24.8W  | 85-264 @ 47-63      | 4.2x2.4x1.1        | 3.7x2.1x0.1                        | 80                             | 2.0                   | 0.5                   | —   | UL/CUL/TUV/CE     | 14.95   | 13.95   | 12.95   |
| 2105666       | Mean Well    | PS-15-12      | +12V @ 0-1.25A              | 15W    | 85-264 @ 47-63      | 3.7x1.9x1.0        | 3.4x1.9x0.14                       | 150                            | 0.5                   | 0.5                   | —   | CE/CB             | 10.95   | 9.95    | 8.95    |
| 229060        | Phihong      | PSA15LN3-120  | +12V @ 0-1.25A              | 15W    | 90-264 @ 47-63      | 4.3x1.6x0.9        | 4.0x1.3x0.2                        | 120                            | 2.0                   | 1.0                   | —   | UL/CUL/TUV/CE     | 19.95   | 17.95   | 16.49   |
| 148604        | Mean Well    | PS-25-12      | +12V @ 0-2.1A               | 25.2W  | 85-264 @ 47-63      | 4.2x2.4x1.1        | 3.7x2.1x0.1                        | 100                            | 2.0                   | 0.3                   | —   | UL/CUL/TUV/CE     | 14.49   | 12.95   | 11.95   |
| 213728        | Mean Well    | PS-45-12      | +12V @ 0-3.7A               | 44.4W  | 90-264 @ 47-440     | 5.0x3.0x1.1        | 4.6x2.6x0.2                        | 100                            | 2.0                   | 1.0                   | —   | UL/CUL/TUV/CE     | 15.95   | 14.95   | 13.95   |
| 148639        | Mean Well    | PS-65-12      | +12V @ 0-5.2A               | 62.4W  | 90-264 @ 47-440     | 5.0x3.0x1.7        | 4.5x2.5x0.15                       | 100                            | 2.0                   | 1.0                   | —   | UL/CUL/TUV/CE     | 17.95   | 16.49   | 15.49   |
| 2099981       | ITE          | SBU60-105     | +12V @ 5.25A                | 63W    | 90-264 @ 47-63      | 5.0x3.0x1.1        | 4.6x2.6x0.15                       | 120                            | 3.0                   | 0.5                   | —   | UL/CUL/CE         | 15.95   | 14.49   | 12.95   |
| 173472        | Mean Well    | LPS-100-12    | +12V @ 0-8.4A               | 100.8W | 88-264 @ 47-63      | 8.7x2.4x1.3        | 8.4x2.1x0.14                       | 100                            | 1.5                   | 0.5                   | ✓   | UL/CUL/TUV/CE     | 41.95   | 38.95   | 35.95   |
| 237024        | Lite-On      | PA-1101-1     | +12V @ 2-8.5A               | 102W   | 85-264 @ 47-63      | 6.0x4.0x1.3        | —                                  | 1200                           | 10.0                  | 1.0                   | —   | UL/CUL/TUV/CE     | 34.95   | 31.95   | 28.95   |
| 2079373       | PowerLD      | PD-125-12     | +12V @ 0-10.5A              | 126W   | 90-264 @ 47-63      | 5.0x3.0x1.2        | 4.6x2.6x0.14                       | 100                            | 2.0                   | 0.5                   | —   | UL/CUL/CE         | 49.95   | 44.95   | 39.95   |
| 374089        | Mean Well    | PPS-125-12    | +12V @ 0-10.5A              | 126W   | 90-264 @ 47-63      | 5.0x3.0x1.4        | 4.6x2.6x0.14                       | 100                            | 1.0                   | 0.5                   | ✓   | UL/CUL/TUV/CE     | 56.95   | 52.95   | 49.95   |
| 213681        | Mean Well    | LPP-150-12    | +12V @ 0-12.5A              | 150W   | 85-264 @ 47-63      | 8.7x2.4x1.6        | 8.3x2.6x0.15                       | 100                            | 1.0                   | 0.5                   | ✓   | UL/CUL/TUV/CE     | 49.95   | 46.95   | 43.95   |
| 668713        | Mean Well    | PPS-200-12    | +12V @ 0-16.6A              | 199.2W | 90-264 @ 47-63      | 5.0x3.0x1.4        | 4.6x2.6x0.14                       | 100                            | 1.0                   | 0.5                   | ✓   | UL/CUL/TUV/CE     | 84.95   | 79.95   | 74.95   |
| 374380        | Mean Well    | PS-65-13.5    | +13.5V @ 0-5.4A             | 63.5W  | 90-264 @ 47-440     | 5.0x3.0x1.7        | 4.5x2.5x0.15                       | 100                            | 2.0                   | 1.0                   | —   | UL/CUL/TUV/CE     | 17.95   | 16.49   | 15.49   |
| 374345        | Mean Well    | LPS-100-13.5  | +13.5V @ 0-7.5A             | 101.3W | 88-264 @ 47-63      | 8.7x2.4x1.3        | 8.4x2.1x0.14                       | 100                            | 1.5                   | 0.5                   | —   | UL/CUL/TUV/CE     | 38.95   | 35.95   | 32.95   |
| 216769        | Mean Well    | PS-25-15      | +15V @ 0-1.7A               | 25.5W  | 85-264 @ 47-63      | 4.2x2.4x1.1        | 3.7x2.1x0.1                        | 100                            | 2.0                   | 0.3                   | —   | UL/CUL/TUV/CE     | 14.95   | 13.95   | 12.95   |
| 1919019       | Mean Well    | PS-35-15      | +15V @ 0-2.4A               | 36W    | 90-264 @ 47-440     | 4.0x2.0x0.9        | 3.8x1.8x0.1                        | 150                            | 0.5                   | 0.5                   | —   | UL/CUL/TUV/CE/CB  | 15.75   | 14.75   | 13.75   |
| 374353        | Mean Well    | PS-45-15      | +15V @ 0-3.5A               | 45W    | 90-264 @ 47-440     | 5.0x3.0x1.1        | 4.6x2.6x0.2                        | 100                            | 3.0                   | 1.0                   | —   | UL/CUL/TUV/CE     | 15.95   | 14.95   | 13.95   |
| 216751        | Mean Well    | PS-65-15      | +15V @ 0-4.2A               | 63W    | 90-264 @ 47-440     | 5.0x3.0x1.7        | 4.5x2.5x0.2                        | 100                            | 2.0                   | 1.0                   | —   | UL/CUL/TUV/CE     | 17.95   | 16.49   | 15.49   |
| 374097        | Mean Well    | PPS-125-15    | +15V @ 0-8.4A               | 126W   | 90-264 @ 47-63      | 5.0x2.4x1.4        | 4.6x2.6x0.14                       | 100                            | 1.0                   | 0.5                   | ✓   | UL/CUL/TUV/CE     | 56.95   | 52.95   | 49.95   |
| 668721        | Mean Well    | PPS-200-15    | +15V @ 0-13.3A              | 199.5W | 90-264 @ 47-63      | 5.0x3.0x1.4        | 4.6x2.6x0.14                       | 100                            | 1.0                   | 0.5                   | ✓   | UL/CUL/TUV/CE     | 84.95   | 79.95   | 74.95   |
| 212346        | Mean Well    | PS-25-24      | +24V @ 0-1A                 | 24W    | 85-264 @ 47-63      | 4.2x2.4x1.1        | 3.7x2.1x0.1                        | 240                            | 2.0                   | 0.2                   | —   | UL/CUL/TUV/CE     | 14.49   | 12.95   | 11.95   |
| 1919035       | Mean Well    | PS-35-24      | +24V @ 0-1.5A               | 36W    | 90-264 @ 47-440     | 4.0x2.0x0.9        | 3.8x1.8x0.1                        | 200                            | 0.5                   | 0.5                   | —   | UL/CUL/TUV/CE/CB  | 15.75   | 14.75   | 13.75   |
| 213720        | Mean Well    | PS-45-24      | +24V @ 0-1.9A               | 45.6W  | 90-264 @ 47-440     | 5.0x3.0x1.1        | 4.6x2.6x0.2                        | 100                            | 2.0                   | 1.0                   | —   | UL/CUL/TUV/CE     | 15.95   | 14.95   | 13.95   |
| 148647        | Mean Well    | PS-65-24      | +24V @ 0-2.7A               | 64.8W  | 90-264 @ 47-440     | 5.0x3.0x1.7        | 4.5x2.5x0.2                        | 100                            | 2.0                   | 1.0                   | —   | UL/CUL/TUV/CE     | 17.95   | 16.49   | 15.49   |
| 244727        | Mean Well    | LPS-75-24     | +24V @ 0-3.5A               | 76.8W  | 90-264 @ 47-63      | 8.7x2.2x1.2        | 8.4x1.8x0.2                        | 120                            | 1.0                   | 1.0                   | ✓   | UL/CUL/TUV/CE     | 24.95   | 22.95   | 20.95   |
| 173463        | Mean Well    | LPS-100-24    | +24V @ 0-4.2A               | 100.8W | 88-264 @ 47-63      | 8.7x2.4x1.3        | 8.4x2.1x0.1                        | 150                            | 0.5                   | 0.5                   | ✓   | UL/CUL/TUV/CE     | 41.95   | 38.95   | 35.95   |
| 301429        | Mean Well    | PPS-125-24    | +24V @ 0-5.2A               | 124.8W | 90-264 @ 47-63      | 5.0x3.0x1.4        | 4.6x2.6x0.1                        | 150                            | 1.0                   | 0.5                   | ✓   | UL/CUL/TUV/CE     | 56.95   | 52.95   | 49.95   |
| 213672        | Mean Well    | LPP-150-24    | +24V @ 0-6.3A               | 150W   | 85-264 @ 47-63      | 8.7x2.4x1.6        | 8.3x2.6x0.2                        | 150                            | 0.5                   | 0.5                   | ✓   | UL/CUL/TUV/CE     | 49.95   | 46.95   | 43.95   |
| 668730        | Mean Well    | PPS-200-24    | +24V @ 0-8.3A               | 199.2W | 90-264 @ 47-63      | 5.0x3.0x1.4        | 3.7x7.8x0.14                       | 150                            | 1.0                   | 0.5                   | ✓   | UL/CUL/TUV/CE     | 84.95   | 79.95   | 74.95   |
| 694495        | Mean Well    | USP-225-24    | +24V @ 0-9.4A               | 225.6W | 90-264 @ 47-63      | 8.0x4.0x1.5        | see datasheet†                     | 150                            | 1.0                   | 0.5                   | ✓   | UL/CUL/TUV/CE/CB  | 74.95   | 69.95   | 64.95   |
| 201946        | Mean Well    | PS-65-27      | +27V @ 0-2.4A               | 64.8W  | 90-264 @ 47-440     | 5.0x3.0x1.7        | 4.5x2.5x0.2                        | 100                            | 2.0                   | 1.0                   | —   | UL/CUL/TUV/CE     | 17.95   | 16.49   | 15.49   |
| 236882        | Mean Well    | LPP-100-27    | +27V @ 0-3.8A               | 102.6W | 88-264 @ 47-63      | 8.7x2.4x1.3        | 8.4x2.1x0.1                        | 150                            | 0.5                   | 0.5                   | ✓   | UL/CUL/TUV/CE     | 39.95   | 36.95   | 33.95   |
| 201954        | Mean Well    | PS-65-48      | +48V @ 0-1.35A              | 64.8W  | 90-264 @ 47-440     | 5.0x3.0x1.7        | 4.5x2.5x0.2                        | 100                            | 2.0                   | 1.0                   | —   | UL/CUL/TUV/CE     | 17.95   | 16.49   | 15.49   |
| 216710        | Mean Well    | LPS-100-48    | +48V @ 0-2.1A               | 100.8W | 88-264 @ 47-63      | 8.7x2.4x1.3        | 8.4x2.1x0.1                        | 200                            | 0.5                   | 0.5                   | ✓   | UL/CUL/TUV/CE     | 38.95   | 35.95   | 32.95   |
| 216646        | Mean Well    | LPP-150-48    | +48V @ 0-3.2A               | 153.6W | 85-264 @ 47-63      | 8.7x2.4x1.6        | 8.3x2.6x0.2                        | 250                            | 0.5                   | 0.5                   | ✓   | UL/CUL/TUV/CE     | 49.95   | 46.95   | 43.95   |
| 694508        | Mean Well    | USP-225-48    | +48V @ 0-4.7A               | 225.6W | 90-264 @ 47-63      | 8.0x4.0x1.5        | see datasheet†                     | 250                            | 1.0                   | 0.5                   | ✓   | UL/CUL/TUV/CE/CB  | 74.95   | 69.95   | 64.95   |
| 1954463       | Mean Well    | USP-500-48    | +48V @ 10.5A                | 504W   | 90-264 @ 47-63      | 10.0x5.0x1.6       | see datasheet†                     | 150                            | 1.0                   | 0.5                   | ✓   | UL/CUL/TUV/CE     | 199.95  | 189.95  | 179.95  |

\* Primary Output † Multiple sets of mounting holes, see datasheet for dimensions

More Open-Frame Switching Power Supplies on pages 135 & 137

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 197.

# Open-Frame & Enclosed Switching AC-to-DC Power Supplies

## Open-Frame Switching AC-to-DC Power Supplies (Continued)

★ Web Code: OSP

- Universal AC input/full range
- Short-circuit, overload and overvoltage protection
- Two-year warranty

For complete specifications visit [www.Jameco.com](http://www.Jameco.com)



PT-65

| Part No.      | Manufacturer | Mfr. Part No. | Output  |        | Input<br>(VAC @ Hz) | Size<br>(L"xW"xH") | Mounting<br>Holes<br>(L"xW"xDia.") | Ripple &<br>Noise<br>(mV p-p)* | Load<br>Reg.<br>(±%)* | Line<br>Reg.<br>(±%)* | PFC | Certification     | Pricing |         |         |
|---------------|--------------|---------------|---|--------|---------------------|--------------------|------------------------------------|--------------------------------|-----------------------|-----------------------|-----|-------------------|---------|---------|---------|
|               |              |               | Voltage @ Current (min-max)                               | Power  |                     |                    |                                    |                                |                       |                       |     |                   | 1       | 5       | 25      |
| Double Output |              |               |   |        |                     |                    |                                    |                                |                       |                       |     |                   |         |         |         |
| 171731        | Delta        | DPS-60MPB     | +3.3V @ 0.8-8A; +5V @ 1-9A                                | 65W    | 90-270 @ 47-63      | 5.8x3.3x1.4        | 5.1x3.74x0.1                       | 50                             | 2.0                   | 2.0                   | —   | UL/CUL/TUV        | \$10.95 | \$9.95  | \$8.95  |
| 212312        | Mean Well    | PD-2505       | +5V @ 0.1-3A; -5V @ 0.1-2.5A                              | 25W    | 85-264 @ 47-63      | 4.2x2.4x1.1        | 3.7x2.08x0.1                       | 50                             | 4.0                   | 1.0                   | —   | UL/CUL/TUV/CE     | 19.95   | 18.49   | 16.95   |
| 212338        | Mean Well    | PD-25A        | +5V @ 0.2-2.5A; +12V @ 0.1-1.5A                           | 25W    | 85-264 @ 47-63      | 4.2x2.4x1.1        | 3.7x2.08x0.1                       | 50                             | 1.0                   | 0.5                   | —   | UL/CUL/TUV/CE     | 16.95   | 15.95   | 14.95   |
| 212330        | Mean Well    | PD-25B        | +5V @ 0.2-2A; +24V @ 0.1-1A                               | 25.2W  | 85-264 @ 47-63      | 4.2x2.4x1.1        | 3.7x2.1x0.1                        | 50                             | 1.0                   | 0.5                   | —   | UL/CUL/TUV/CE     | 16.95   | 15.95   | 14.95   |
| 194862        | Mean Well    | PD-45A        | +5V @ 0.4-3.2A; +12V @ 0.2-2                              | 40W    | 90-264 @ 47-440     | 5.0x3.0x1.1        | 4.6x2.6x0.2                        | 50                             | 3.0                   | 1.0                   | —   | UL/CUL/TUV/CE     | 17.95   | 16.95   | 15.95   |
| 194871        | Mean Well    | PD-45B        | +5V @ 0.4-3.2A; +24V @ 0.2-1.2A                           | 44.8W  | 90-264 @ 47-440     | 5.0x3.0x1.1        | 4.6x2.6x0.2                        | 50                             | 3.0                   | 1.0                   | —   | UL/CUL/TUV/CE     | 17.95   | 16.95   | 15.95   |
| 194889        | Mean Well    | PD-65A        | +5V @ 0.4-7A; +12V @ 0.2-3.2A                             | 61.1W  | 90-264 @ 47-440     | 5.0x3.0x1.7        | 4.5x2.5x0.2                        | 50                             | 3.0                   | 1.0                   | —   | UL/CUL/TUV/CE     | 19.95   | 18.95   | 17.95   |
| 692377        | Autec        | UPS65-1002    | +5V @ 0.5-3.5A; +12V @ 0.1-4A                             | 65W    | 90-260 @ 47-63      | 6.0x3.5x1.5        | 4.8x3.2x0.2                        | 50                             | 2.0                   | 0.5                   | —   | UL/CSA/TUV        | 19.95   | 17.95   | 15.95   |
| 194897        | Mean Well    | PD-65B        | +5V @ 0.4-3.5A; +24V @ 0.2-2A                             | 65.5W  | 90-264 @ 47-440     | 5.0x3.0x1.7        | 4.5x2.5x0.2                        | 50                             | 3.0                   | 1.0                   | —   | UL/CUL/TUV/CE     | 19.95   | 18.95   | 17.95   |
| 375056        | Mean Well    | PD-110B       | +5V @ 0.5-5A; +24V @ 0.5-3.5A                             | 109W   | 100-264 @ 47-63     | 7.0X4.3X1.8        | 6.5X3.8X0.1                        | 100                            | 1.0                   | 1.0                   | —   | UL/CUL/TUV/CE     | 43.95   | 39.95   | 36.95   |
| 148690        | Mean Well    | PD-2512       | +12V @ 0.1-1.2A; -12V @ 0.1-1A                            | 24W    | 85-264 @ 47-63      | 4.2x2.4x1.1        | 3.7x2.1x0.1                        | 50                             | 3.0                   | 0.5                   | —   | UL/CUL/TUV/CE     | 15.95   | 14.95   | 13.95   |
| 2100857       | Mean Well    | PD-25-15      | +15V @ 1A, -5V @ 1A                                       | 25W    | 85-264 @ 47-63      | 4.2x2.4x1.1        | 3.7x2.1x0.1                        | 50                             | 3.0                   | 0.5                   | —   | EN/TUV/UL         | 19.95   | 17.95   | 16.49   |
| Triple Output |              |               |   |        |                     |                    |                                    |                                |                       |                       |     |                   |         |         |         |
| 230536        | Phihong      | PSA25L-301    | +5V @ 0.2-2A; +12V @ 0.1-1A; -12V @ 0-0.3A                | 25W    | 90-264 @ 47-63      | 4.3x1.6x0.9        | 3.7x2.1x0.1                        | 50                             | 2.0                   | 1.0                   | —   | UL/CUL/TUV/CE     | \$24.95 | \$22.95 | \$20.95 |
| 2081617       | Artesyn      | NFN40-7607    | +5V @ 3A; +12V @ 2A; -5V @ 0.35A                          | 40W    | 85-264 @ 47-440     | 5.0x3.0x1.2        | 4.6x2.6x0.15                       | 50                             | 2.0                   | 1.0                   | —   | UL/CSA/TUV        | 24.95   | 22.49   | 19.95   |
| 229122        | Phihong      | PSA4531       | +5V @ 0-4A; +12V @ 0-1.5A; -12V @ 0-0.5A                  | 44W    | 90-264 @ 47-63      | 5.0x3.0x1.2        | 4.6x2.6x0.2                        | 50                             | 2.0                   | 1.0                   | —   | UL/CSA/TUV/CE     | 34.95   | 31.95   | 28.95   |
| 88402         | Mean Well    | PT-45B        | +5V @ 0.4-3A; +12V @ 0.2-2A; -12V @ 0-0.3A                | 45W    | 90-264 @ 47-440     | 5.0x3.0x1.1        | 4.6x2.6x0.2                        | 50                             | 3.0                   | 1.0                   | —   | UL/CUL/TUV/CE     | 19.95   | 18.49   | 16.95   |
| 229140        | Phihong      | PSA4534       | +5V @ 0-4A; +15V @ 0-1.2A; -15V @ 0-0.5A                  | 45.5W  | 90-264 @ 47-63      | 5.0x3.0x1.2        | 4.6x2.6x0.16                       | 50                             | 2.0                   | 2.0                   | —   | UL/CSA/TUV/CE     | 34.95   | 31.95   | 28.95   |
| 216734        | Mean Well    | PT-65B        | +5V @ 0.4-5.5A; +12V @ 0.2-2.5A; -12V @ 0-0.5A            | 63.5W  | 90-264 @ 47-440     | 5.0x3.0x1.7        | 4.6x2.6x0.2                        | 50                             | 3.0                   | 1.0                   | —   | UL/CUL/TUV/CE     | 22.95   | 20.95   | 19.49   |
| 216726        | Mean Well    | PT-65C        | +5V @ 0.4-5.5A; +15V @ 0.2-2A; -15V @ 0-0.5A              | 65W    | 90-264 @ 47-440     | 5.0x3.0x1.7        | 4.6x2.6x0.2                        | 50                             | 3.0                   | 1.0                   | —   | UL/CUL/TUV/CE     | 22.95   | 20.95   | 19.49   |
| 215707        | Mean Well    | PT-65D        | +5V @ 0.5-4A; +12V @ 0.2-2A; +24V @ 0.2-1A                | 65W    | 90-264 @ 47-440     | 5.0x3.0x1.7        | 4.6x2.6x0.2                        | 50                             | 2.0                   | 1.0                   | —   | UL/CUL/TUV/CE     | 22.95   | 20.95   | 19.49   |
| 301487        | Mean Well    | PPT-125B      | +5V @ 1-14.4A; +12V @ 0.3-3.8A; -12V @ 0.05-0.63A         | 99.5W  | 90-264 @ 47-63      | 5.0x3.0x1.4        | 4.6x2.6x0.1                        | 100                            | 3.0                   | 0.5                   | ✓   | UL/CUL/TUV/CE     | 56.95   | 53.95   | 51.95   |
| 301495        | Mean Well    | PPT-125C      | +5V @ 1-13.8A; +15V @ 0.25-3.1A; -15V @ 0.05-0.63A        | 125.1W | 90-264 @ 47-63      | 5.0x3.0x1.4        | 4.6x2.6x0.2                        | 100                            | 3.0                   | 0.5                   | ✓   | UL/CUL/TUV/CE     | 56.95   | 53.95   | 51.95   |
| Quad Output   |              |               |   |        |                     |                    |                                    |                                |                       |                       |     |                   |         |         |         |
| 673934        | Martek Power | PVI-50-46BUB  | +5V @ 6.5A; +3.3V @ 2.5A; +12V @ 0.8A; -12V @ 0.5A        | 57W    | 100-240 @ 50-60     | 8.1x3.2x1.5        | 7.6x2.6x0.15                       | 50                             | 2.0                   | 2.0                   | —   | UL/CUL/CSA/TUV/CE | \$34.95 | \$31.95 | \$28.95 |
| 2081721       | EOS**        | LFMVL780-4000 | +5V @ 10A; +12V @ 2A; -5V @ 0.8A; -12V @ 0.8A             | 80W    | 90-240 @ 47-63      | 3.0x5.0x1.0        | 4.55x2.55                          | 80                             | 1.0                   | 1.0                   | —   | UL/CE             | 49.95   | 44.95   | 39.95   |
| 217277        | Mean Well    | PPQ-100B      | +5V @ 2-10A; +12V @ 0.3-3.4A; -5V @ 0-0.6A; -12V @ 0-0.6A | 101W   | 90-264 @ 47-63      | 7.0x4.3x1.6        | 6.5x3.8X0.2                        | 100                            | 2.0                   | 1.0                   | ✓   | UL/CUL/TUV/CE     | 26.95   | 24.95   | 22.95   |
| 645298        | Mean Well    | PQ-100DTR     | +5V @ 5A; +12V @ 2A; -12V @ 2A; +24V @ 2A                 | 103W   | 100-264 @ 47-63     | 7.0x4.3x1.8        | 6.5x3.8x0.2                        | 80                             | 1.0                   | 1.0                   | —   | —                 | 39.95   | 34.95   | 29.95   |

\* Primary Output \*\* Medical rated Blue Part No. = Limited Quantity Available

## Enclosed Switching AC-to-DC Power Supplies

Specs & images on next page

★ Web Code: EPS

| Part No.      | Manufacturer | Mfr. Part No. | Output                      |        | Size<br>(L"xW"xH") | Ripple &<br>Noise<br>(mV p-p)* | Load<br>Reg.<br>(±%)* | Line<br>Reg.<br>(±%)* | Additional<br>Info<br>pg 138 ↑ | Certification        | Pricing |         |         |  |
|---------------|--------------|---------------|-----------------------------|--------|--------------------|--------------------------------|-----------------------|-----------------------|--------------------------------|----------------------|---------|---------|---------|--|
|               |              |               | Voltage @ Current (min-max) | Power  |                    |                                |                       |                       |                                |                      | 1       | 5       | 25      |  |
| Single Output |              |               |                             |        |                    |                                |                       |                       |                                |                      |         |         |         |  |
| 693193        | Mean Well🌱   | RS-25-3.3     | +3.3V @ 0-6A                | 19.8W  | 3.0x2.0x1.1        | 80                             | 2.0                   | 0.5                   | 1                              | UL/CUL/TUV/CE/CB     | \$18.49 | \$16.95 | \$15.95 |  |
| 693329        | Mean Well🌱   | RS-150-3.3    | +3.3V @ 0-30A               | 99W    | 7.8x3.9x1.5        | 80                             | 2.0                   | 0.5                   | 1                              | UL/CUL/TUV/CE/CB     | 41.95   | 38.95   | 35.95   |  |
| 201903        | Mean Well🌱   | SP-150-3.3-R  | +3.3V @ 0-30A               | 99W    | 7.0x3.9x2.0        | 100                            | 1.0                   | 0.5                   | 3                              | UL/CUL/TUV/CE/CB/PFC | 56.95   | 52.95   | 49.95   |  |
| 693636        | Mean Well🌱   | SP-480-3.3    | +3.3V @ 0-85A               | 280.5W | 10.9x5.0x1.7       | 80                             | 1.0                   | 0.5                   | 3                              | UL/CUL/TUV/CE/CB     | 144.95  | 134.95  | 124.95  |  |
| 692422        | Volgen       | SX15U-05S     | +5V @ 0-3A                  | 15W    | 3.3x2.7x1.3        | 100                            | 0.8                   | 0.8                   | —                              | UL/CSA               | 14.95   | 13.49   | 11.95   |  |
| 689848        | Metapo       | 1M150C05-1M   | +5V @ 0-3A                  | 15W    | 3.9x3.8x1.4        | 100                            | 0.5                   | 1.0                   | —                              | UL/CUL/TUV/CE        | 15.95   | 14.49   | 12.95   |  |
| 1919043       | Mean Well🌱   | RS-15-5       | +5V @ 0-3A                  | 15W    | 2.5x2.0x1.1        | 80                             | 1.5                   | 0.5                   | 1                              | UL/CUL/TUV/CE/CB     | 14.95   | 13.95   | 12.95   |  |
| 323282        | Mean Well🌱   | RS-25-5       | +5V @ 0-5A                  | 25W    | 3.1x2.0x1.1        | 80                             | 1.0                   | 0.5                   | 1                              | UL/CUL/TUV/CE/CB     | 18.49   | 16.95   | 15.95   |  |
| 123247        | Mean Well🌱   | S-25-5        | +5V @ 0-5A                  | 25W    | 3.9x3.8x1.4        | 50                             | 1.0                   | 0.5                   | 2                              | UL/TUV/CE            | 18.49   | 17.49   | 16.49   |  |
| 323329        | Mean Well🌱   | RS-35-5       | +5V @ 0-7A                  | 35W    | 3.9x3.2x1.4        | 80                             | 1.0                   | 0.5                   | 1                              | UL/CUL/TUV/CE/CB     | 19.95   | 18.95   | 17.95   |  |
| 689805        | Metapo       | 1M041C05-1M   | +5V @ 0-8A                  | 40W    | 4.8x3.8x1.5        | 75                             | —                     | —                     | —                              | UL/CUL/TUV/CE        | 19.95   | 17.95   | 16.49   |  |
| 123290        | Mean Well🌱   | S-40-5        | +5V @ 0-8A                  | 40W    | 5.1x3.9x1.5        | 75                             | 1.0                   | 0.5                   | 2                              | UL/CUL/TUV/CE/CB     | 21.49   | 19.95   | 18.95   |  |

\* Primary Output † Additional info on next page

More Enclosed Switching Power Supplies continued on pages 138-142

★ For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

# Enclosed Switching AC-to-DC Power Supplies

| 3 LEVELS OF SAVINGS |              |                 |
|---------------------|--------------|-----------------|
| NAME BRANDS         | HOUSE BRANDS | FACTORY OVERRUN |

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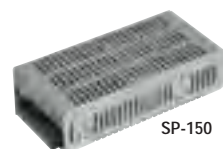
## Enclosed Switching AC-to-DC Power Supplies (Continued)

\* Web Code: EPS

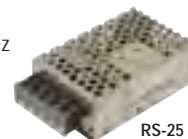
• 100% full-load burn-in test For complete specifications visit [www.Jameco.com](http://www.Jameco.com)

### † Additional Info:

- 1 **G3 Series:** Miniature size, high reliability, suitable for critical applications • 88-264VAC @47-63Hz • 5G vibration  
 • 70°C operation • Withstand 300VAC surge input for 5 sec. • Short-circuit/overload/overvoltage protection • Three-year warranty
- 2 **G2 Series:** Without CE certification for models more than 200W (except for S-240) • 85-264VAC @47-63Hz  
 • Universal AC input (25-60W), Switch selectable AC input (100-150W), AC input range auto-sensing (240W) • Two-year warranty
- 3 **PFC Series:** Built-in active Power Factor Correction function • Power factor >0.93 • 88-264VAC @47-63Hz  
 • Universal AC input • Three-year warranty
- 4 **Parallel Series:** Built-in remote sense, remote On/Off control & Parallel functions • 115V & 220V versions @ 47-63Hz  
 • Short-circuit/overvoltage/overload/overtemperature protection
- 5 **Parallel Series with PFC:** Same as parallel series with Power Factor Correction
- 6 **G5 Series:** Built-in active PFC function • 1U low profile 38mm • 85-264VAC @ 47-63Hz  
 • High efficiency up to 89% • Withstand 300VAC surge input for 5 sec. • Five-year warranty



SP-150



RS-25



SCN-600

| Part No.                  | Manufacturer | Mfr. Part No. | Output                                 |         | Size<br>(L"xW"xH") | Ripple & Noise<br>(mV p-p)* | Load Reg.<br>(±%)* | Line Reg.<br>(±%)* | Additional Info<br>(above)† | Certification        | Pricing |         |         |
|---------------------------|--------------|---------------|--|---------|--------------------|-----------------------------|--------------------|--------------------|-----------------------------|----------------------|---------|---------|---------|
|                           |              |               | Voltage @ Current (min-max)            | Power   |                    |                             |                    |                    |                             |                      | 1       | 5       | 25      |
| Single Output (Continued) |              |               |  |         |                    |                             |                    |                    |                             |                      |         |         |         |
| 689784                    | Metapo       | 1M051C05-0M   | +5V @ 0-10A                            | 50W     | 6.0x3.7x1.5        | 100                         | —                  | —                  | —                           | UL/CUL               | \$21.95 | \$19.95 | \$17.95 |
| 323388                    | Mean Well    | RS-50-5       | +5V @ 0-10A                            | 50W     | 3.9x3.8x1.4        | 80                          | 1.0                | 0.5                | 1                           | UL/CUL/TUV/CE/CB     | 23.95   | 21.95   | 19.95   |
| 2079390                   | PowerLD      | PD-60-5       | +5V @ 0-10A                            | 50W     | 5.1x3.9x1.5        | 50                          | 2.0                | 0.5                | —                           | UL/CUL/CE            | 34.95   | 32.49   | 29.95   |
| 689768                    | Potrans      | FS-06005-0M   | +5V @ 0-12A                            | 60W     | 5.1x3.9x1.5        | 120                         | —                  | —                  | —                           | UL/CUL/CE            | 21.95   | 19.95   | 17.95   |
| 123327                    | Mean Well    | S-60-5        | +5V @ 0-12A                            | 60W     | 6.3x3.8x1.5        | 120                         | 1.0                | 0.5                | 2                           | UL/CUL/TUV/CE/CB     | 23.49   | 21.95   | 20.95   |
| 194830                    | Mean Well    | SP-75-5       | +5V @ 0-15A                            | 75W     | 7.0x3.9x1.3        | 80                          | 1.0                | 0.5                | 3                           | UL/CUL/TUV/CE/CB     | 44.95   | 42.49   | 39.95   |
| 323708                    | Mean Well    | RS-100-5      | +5V @ 0-16A                            | 80W     | 6.3x3.8x1.5        | 80                          | 1.0                | 0.5                | 1                           | UL/CUL/TUV/CE/CB     | 36.95   | 34.95   | 32.95   |
| 201962                    | Mean Well    | S-100F-5      | +5V @ 0-20A                            | 100W    | 7.8x3.9x1.5        | 100                         | 1.0                | 0.5                | 2                           | UL/CUL/TUV/CE/CB     | 28.95   | 26.95   | 24.95   |
| 194791                    | Mean Well    | SP-100-5      | +5V @ 0-20A                            | 100W    | 7.0x3.9x1.8        | 100                         | 1.0                | 0.5                | 3                           | UL/CUL/TUV/CE/CB/PFC | 49.95   | 46.95   | 43.95   |
| 323821                    | Mean Well    | RS-150-5      | +5V @ 0-26A                            | 130W    | 7.8x3.9x1.5        | 80                          | 1.0                | 0.5                | 1                           | UL/CUL/TUV/CE/CB     | 41.95   | 38.95   | 35.95   |
| 123394                    | Mean Well    | S-150-5       | +5V @ 0-30A                            | 150W    | 7.0x4.3x2.0        | 150                         | 0.5                | 0.5                | 2                           | UL/CUL/TUV/CE/CB     | 34.95   | 32.49   | 29.95   |
| 201912                    | Mean Well    | SP-150-5      | +5V @ 0-30A                            | 150W    | 7.0x3.9x2.0        | 100                         | 1.0                | 0.5                | 3                           | UL/CUL/TUV/CE/CB/PFC | 56.95   | 52.95   | 49.95   |
| 202042                    | Mean Well    | SP-200-5      | +5V @ 0-40A                            | 200W    | 7.0x3.9x2.0        | 100                         | 1.0                | 0.5                | 3                           | UL/CUL/TUV/CE/CB/PFC | 62.95   | 58.95   | 54.95   |
| 2102490                   | Mean Well    | SP-240-5      | +5V @ 0-45A                            | 225W    | 7.5x3.7x2.0        | 150                         | 1.0                | 0.5                | 3                           | UL/CUL/TUV/CE/CB/PFC | 64.95   | 59.95   | 55.95   |
| 216776                    | Mean Well    | S-320-5       | +5V @ 0-50A                            | 250W    | 8.5x4.5x2.0        | 150                         | 1.0                | 0.5                | 2                           | UL/CUL               | 69.95   | 64.95   | 59.95   |
| 2079437                   | PowerLD      | GPF-U300S5    | +5V @ 0-50A                            | 250W    | 8.9x4.5x2.0        | 150                         | 2.0                | 1.0                | —                           | UL/CUL/CE            | 79.95   | 69.95   | 64.95   |
| 244735                    | Mean Well    | SP-320-5      | +5V @ 0-55A at 230VAC; 0-44A at 115VAC | 275W    | 8.5x4.5x2.0        | 150                         | 1.0                | 0.5                | 3                           | UL/CUL/TUV/CE/CB/PFC | 74.95   | 69.95   | 64.95   |
| 2076295                   | Mean Well    | PSP-600-5     | +5V @ 0-80A                            | 400W    | 6.7x4.7x3.7        | 180                         | 0.5                | 0.5                | 5                           | UL/CUL/TUV/CE/CB/PFC | 149.95  | 139.95  | 129.95  |
| 693644                    | Mean Well    | SP-480-5      | +5V @ 0-85A                            | 425W    | 10.9x5.0x1.7       | 80                          | 1.0                | 0.5                | 3                           | UL/CUL/TUV/CE/CB/PFC | 154.95  | 144.95  | 134.95  |
| 374002                    | Mean Well    | SE-600-05     | +5V @ 0-100A                           | 500W    | 9.7x5.0x2.5        | 150                         | 2.0                | 0.5                | 2                           | UL/CUL               | 114.95  | 106.95  | 99.95   |
| 220249                    | Mean Well    | SCN-600-05    | +5V @ 0-100A                           | 500W    | 11.5x5.2x2.7       | 100                         | 2.0                | 0.5                | 4                           | UL/CUL/CB            | 224.95  | 209.95  | 199.95  |
| 693661                    | Mean Well    | SP-750-5      | +5V @ 0-120A                           | 600W    | 10.9x5.0x2.5       | 120                         | 2.0                | 0.5                | 3                           | UL/CUL/TUV/CE/CB     | 229.95  | 214.95  | 199.95  |
| 231669                    | Mean Well    | PSP-1500-5    | +5V @ 0-217.5A                         | 1087.5W | 10.9x5.1x7.5       | 100                         | 2.0                | 0.5                | 5                           | UL/CUL/TUV/CE/CB     | 324.95  | 299.95  | 279.95  |
| 123415                    | Mean Well    | S-150-7.5     | +7.5V @ 0-20A                          | 150W    | 7.0x4.3x2.0        | 150                         | 0.5                | 0.5                | 2                           | UL/CUL/TUV/CE/CB     | 34.95   | 32.49   | 29.95   |
| 693556                    | Mean Well    | S-240-7.5     | +7.5V @ 0-30A                          | 225W    | 7.5x3.7x2.6        | 200                         | 1.0                | 0.5                | 2                           | UL/CUL/TUV/CE/CB/PFC | 74.95   | 69.95   | 66.95   |
| 207212                    | Mean Well    | S-320-7.5     | +7.5V @ 0-36A                          | 270W    | 8.5x4.5x2.0        | 150                         | 0.5                | 0.5                | 2                           | UL/CUL               | 69.95   | 64.95   | 59.95   |
| 394215                    | Mean Well    | SP-320-7.5    | +7.5V @ 0-40A                          | 300W    | 8.5x4.5x2.0        | 150                         | 1.0                | 0.5                | 3                           | UL/CUL/TUV/CE/CB/PFC | 74.95   | 69.95   | 64.95   |
| 1919051                   | Mean Well    | RS-15-12      | +12V @ 0-1.3A                          | 15.6W   | 2.5x2.0x1.1        | 120                         | 0.5                | 0.5                | 1                           | UL/CUL/TUV/CE/CB     | 14.95   | 13.95   | 12.95   |
| 323300                    | Mean Well    | RS-25-12      | +12V @ 0-2.1A                          | 25.2W   | 3.0x2.0x1.1        | 120                         | 0.5                | 0.5                | 1                           | UL/CUL/TUV/CE/CB     | 18.49   | 16.95   | 15.95   |
| 123255                    | Mean Well    | S-25-12       | +12V @ 0-2.1A                          | 25.2W   | 3.9x3.8x1.4        | 100                         | 0.5                | 0.5                | 2                           | UL/TUV/CE            | 18.49   | 17.49   | 16.49   |
| 323337                    | Mean Well    | RS-35-12      | +12V @ 0-3A                            | 36W     | 3.9x3.2x1.4        | 120                         | 0.5                | 0.5                | 1                           | UL/CUL/TUV/CE/CB     | 19.95   | 18.95   | 17.95   |
| 689830                    | Metapo       | 1M041C12-1M   | +12V @ 0-3.5A                          | 42W     | 3.9x3.8x1.4        | 100                         | —                  | —                  | —                           | UL/CUL/TUV/CE        | 19.95   | 17.95   | 16.49   |
| 123298                    | Mean Well    | S-40-12       | +12V @ 0-3.5A                          | 42W     | 5.1x3.9x1.5        | 100                         | 0.5                | 0.5                | 2                           | UL/CUL/TUV/CE/CB     | 21.49   | 19.95   | 18.95   |
| 689821                    | Metapo       | 1M051C12-1M   | +12V @ 0-4.2A                          | 50W     | 6.0x3.7x1.5        | 100                         | —                  | —                  | —                           | UL/CUL/TUV/CE        | 22.95   | 20.95   | 18.95   |
| 323396                    | Mean Well    | RS-50-12      | +12V @ 0-4.2A                          | 50.4W   | 3.9x3.8x1.4        | 120                         | 0.5                | 0.5                | 1                           | UL/CUL/TUV/CE/CB     | 23.95   | 21.95   | 19.95   |
| 689813                    | Potrans      | 1M061C05-1M   | +12V @ 0-5A                            | 60W     | 3.9x3.8x1.4        | 120                         | —                  | —                  | —                           | UL/TUV/CE            | 21.95   | 19.95   | 18.49   |
| 123335                    | Mean Well    | S-60-12       | +12V @ 0-5A                            | 60W     | 6.3x3.8x1.5        | 120                         | 0.5                | 0.5                | 2                           | UL/CUL/TUV/CE/CB     | 23.49   | 21.95   | 20.95   |
| 323599                    | Mean Well    | RS-75-12      | +12V @ 0-6A                            | 72W     | 5.1x3.9x1.5        | 120                         | 0.5                | 0.5                | 1                           | UL/CUL/TUV/CE/CB     | 26.95   | 24.95   | 22.95   |
| 194838                    | Mean Well    | SP-75-12      | +12V @ 0-6.3A                          | 75.6W   | 7.0x3.9x1.3        | 80                          | 0.5                | 0.5                | 3                           | UL/CUL/TUV/CE/CB     | 44.95   | 42.49   | 39.95   |
| 123386                    | Mean Well    | S-100F-12     | +12V @ 0-8.5A                          | 102W    | 7.8x3.9x1.5        | 125                         | 0.5                | 0.5                | 2                           | UL/TUV/CE/CB         | 28.95   | 26.95   | 24.95   |
| 323716                    | Mean Well    | RS-100-12     | +12V @ 0-8.5A                          | 102W    | 6.3x3.8x1.5        | 120                         | 0.5                | 0.5                | 1                           | UL/CUL/TUV/CE/CB     | 36.95   | 34.95   | 32.95   |
| 194803                    | Mean Well    | SP-100-12     | +12V @ 0-8.5A                          | 102W    | 7.0x3.9x1.8        | 100                         | 0.5                | 0.5                | 1                           | UL/CUL/TUV/CE/CB/PFC | 49.95   | 46.95   | 43.95   |
| 123423                    | Mean Well    | S-150-12      | +12V @ 0-12.5A                         | 150W    | 7.0x4.3x2.0        | 180                         | 0.3                | 0.3                | 2                           | UL/CUL/TUV/CE/CB     | 34.95   | 32.49   | 29.95   |
| 323839                    | Mean Well    | RS-150-12     | +12V @ 0-12.5A                         | 150W    | 7.8x3.9x1.5        | 120                         | 0.5                | 0.5                | 1                           | UL/CUL/TUV/CE/CB     | 41.95   | 38.95   | 35.95   |
| 173421                    | Mean Well    | SP-150-12     | +12V @ 0-12.5A                         | 150W    | 7.0x3.9x2.0        | 100                         | 0.5                | 0.5                | 3                           | UL/CUL/TUV/CE/CB/PFC | 56.95   | 52.95   | 49.95   |
| 2094848                   | Mean Well    | HRPG-150-12   | +12V @ 0-13A                           | 156W    | 6.3x3.8x1.5        | 120                         | 0.5                | 0.3                | 6                           | UL/CUL/TUV/CE/CB/PFC | 84.95   | 79.95   | 74.95   |
| 2102123                   | Mean Well    | HLG-240-12A   | +12V @ 16A                             | 240W    | 9.6x2.7x1.5        | 150                         | 2.0                | 0.5                | —                           | CNS/EN/FCC/GB/TUV/UC | 109.95  | 99.95   | 94.95   |
| 194774                    | Mean Well    | SP-200-12     | +12V @ 0-16.7A                         | 200.4W  | 7.0x3.9x2.0        | 100                         | 0.5                | 0.5                | 3                           | UL/CUL/TUV/CE/CB/PFC | 62.95   | 58.95   | 54.95   |
| 137649                    | Mean Well    | S-240-12      | +12V @ 0-18A                           | 216W    | 7.5x3.7x2.6        | 150                         | 0.5                | 0.5                | 2                           | UL/CUL/TUV/CE/CB/PFC | 74.95   | 69.95   | 66.95   |

\* Primary Output ‡ Blue Part No. = Limited Quantity Available

More Enclosed Switching Power Supplies on pages 137 & 139-141

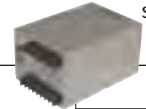
RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 197.



# Enclosed Switching AC-to-DC Power Supplies



## Enclosed Switching AC-to-DC Power Supplies (Continued)



SP-500

\*Web Code: EPS

| Part No.                  | Manufacturer | Mfr. Part No. | Output                                     |        | Size<br>(L"xW"xH") | Ripple & Noise<br>(mV p-p)* | Load Reg.<br>(±%)* | Line Reg.<br>(±%)* | Additional Info<br>Pg. 138↑ | Certification        | Pricing |         |         |
|---------------------------|--------------|---------------|--|--------|--------------------|-----------------------------|--------------------|--------------------|-----------------------------|----------------------|---------|---------|---------|
|                           |              |               | Voltage @ Current(min-max)                 | Power  |                    |                             |                    |                    |                             |                      | 1       | 5       | 25      |
| Single Output (Continued) |              |               |  |        |                    |                             |                    |                    |                             |                      |         |         |         |
| 2101497                   | Mean Well    | SP-240-12     | +12V @ 0-20A                               | 240W   | 7.5x3.7x2.0        | 150                         | 0.5                | 0.3                | 3                           | UL/CUL/TUV/CE/CB/PFC | \$64.95 | \$59.95 | \$55.95 |
| 207204                    | Mean Well    | S-320-12      | +12V @ 0-25A                               | 300W   | 8.5x4.5x2.0        | 150                         | 0.5                | 0.5                | 2                           | UL/CUL               | 69.95   | 64.95   | 59.95   |
| 244743                    | Mean Well    | SP-320-12     | +12V @ 0-25A at 230VAC; 0-20A @ 115VAC     | 300W   | 8.5x4.5x2.0        | 150                         | 0.5                | 0.3                | 3                           | UL/CUL/TUV/CE/CB/PFC | 74.95   | 69.95   | 64.95   |
| 2102203                   | Mean Well    | HRP-300-12    | +12V @ 0-27A                               | 324W   | 7.8x4.1x1.6        | 120                         | 0.5                | 0.3                | 3                           | UL/CUL/TUV/CE/CB/PFC | 114.95  | 104.95  | 94.95   |
| 2094872                   | Mean Well    | HRPG-300-12   | +12V @ 0-27A                               | 324W   | 7.8x4.1x1.6        | 120                         | 0.5                | 0.3                | 6                           | UL/CUL/TUV/CE/CB/PFC | 119.95  | 114.95  | 109.95  |
| 2094928                   | Mean Well    | SE450-12      | +12V @ 0-37.5A                             | 450W   | 8.9x4.9x2.0        | 200                         | 1.0                | 0.5                | 2                           | UL/CUL/TUV/CE/CB/PFC | 99.95   | 92.95   | 86.95   |
| 301373                    | Mean Well    | SP-480-12     | +12V @ 0-40A at 230VAC; 0-36A @ 115VAC     | 480W   | 10.9x5.0x1.7       | 120                         | 0.5                | 0.3                | 3                           | UL/CUL/TUV/CE/CB/PFC | 154.95  | 144.95  | 134.95  |
| 190693                    | Mean Well    | SP-500-12     | +12V @ 0-40A at 230VAC; 0-34A @ 115VAC     | 480W   | 6.7x4.7x3.7        | 240                         | 0.5                | 0.5                | 3                           | UL/CUL/TUV/CE/CB/PFC | 149.95  | 139.95  | 129.95  |
| 374011                    | Mean Well    | SE-600-12     | +12V @ 0-50A                               | 600W   | 9.7x5.0x2.5        | 150                         | 0.5                | 0.5                | 2                           | UL/CUL               | 114.95  | 106.95  | 99.95   |
| 374214                    | Mean Well    | PSP-600-12    | +12V @ 0-50A                               | 600W   | 6.7x4.7x3.7        | 240                         | 0.5                | 0.5                | 5                           | UL/CUL/TUV/CE/CB/PFC | 149.95  | 139.95  | 129.95  |
| 220257                    | Mean Well    | SCN-600-12    | +12V @ 0-50A                               | 600W   | 11.5x5.2x2.7       | 120                         | 1.0                | 0.5                | 4                           | UL/CUL/CB            | 224.95  | 209.95  | 194.95  |
| 388631                    | Mean Well    | SCP-600-12    | +12V @ 0-50A                               | 600W   | 11.4x4.7x2.7       | 120                         | 0.5                | 0.5                | 5                           | UL/CUL/TUV/CE/CB     | 199.95  | 189.95  | 179.95  |
| 2094961                   | Mean Well    | HRPG-600-12   | +12V @ 0-53A                               | 636W   | 8.6x4.1x2.5        | 120                         | 0.5                | 0.3                | 6                           | UL/CUL/TUV/CE/CB/PFC | 189.95  | 174.95  | 164.95  |
| 319944                    | Mean Well    | SP-750-12     | +12V @ 0-62A                               | 750W   | 10.9x5.0x2.5       | 120                         | 0.5                | 0.3                | 3                           | UL/CUL/TUV/CE/CB     | 229.95  | 214.95  | 199.95  |
| 217366                    | Mean Well    | PSP-1000-12   | +12V @ 0-75A at 230VAC; 0-63.8A @ 115VAC   | 900W   | 10.9x5.1x5.0       | 150                         | 0.5                | 0.3                | 5                           | UL/CUL/TUV/CE/CB/PFC | 399.95  | 369.95  | 349.95  |
| 373261                    | Mean Well    | PSP-1500-12   | +12V @ 0-112.5A                            | 1350W  | 10.9x5.1x7.5       | 150                         | 0.5                | 0.3                | 5                           | UL/CUL/TUV/CE/CB/PFC | 499.95  | 474.95  | 449.95  |
| 202025                    | Mean Well    | S-150-13.5    | +13.5V @ 0-11.2A                           | 151.2W | 7.0x4.3x2.0        | 180                         | 0.3                | 0.3                | 2                           | UL/CUL/TUV/CE/CB     | 34.95   | 32.49   | 29.95   |
| 394193                    | Mean Well    | SP-150-13.5   | +13.5V @ 0-11.2A                           | 151.2W | 7.0x3.9x2.0        | 100                         | 0.5                | 0.5                | 3                           | UL/CUL/TUV/CE/CB/PFC | 56.95   | 52.95   | 49.95   |
| 212410                    | Mean Well    | SP-200-13.5   | +13.5V @ 0-14.9A                           | 201.1W | 7.0x3.9x2.0        | 100                         | 0.5                | 0.5                | 3                           | UL/CUL/TUV/CE/CB/PFC | 62.95   | 58.95   | 54.95   |
| 693572                    | Mean Well    | S-320-13.5    | +13.5V @ 0-22A                             | 297W   | 8.5x4.5x2.0        | 150                         | 0.5                | 0.5                | 2                           | UL/CUL               | 69.95   | 64.95   | 59.95   |
| 693599                    | Mean Well    | SP-320-13.5   | +13.5V @ 0-22A                             | 297W   | 8.5x4.5x2.0        | 150                         | 0.5                | 0.3                | 3                           | UL/CUL/TUV/CE/CB/PFC | 74.95   | 69.95   | 64.95   |
| 212389                    | Mean Well    | SP-500-13.5   | +13.5V @ 0-36A at 230VAC; 0-30.6A @ 115VAC | 486W   | 6.7x4.7x3.7        | 240                         | 0.5                | 0.5                | 3                           | UL/CUL/TUV/CE/CB     | 149.95  | 139.95  | 129.95  |
| 1919060                   | Mean Well    | RS-15-15      | +15V @ 0-1A                                | 15W    | 2.5x2.0x1.1        | 120                         | 0.5                | 0.5                | 1                           | UL/CUL/TUV/CE/CB     | 14.95   | 13.95   | 12.95   |
| 123263                    | Mean Well    | S-25-15       | +15V @ 0-1.7A                              | 25.5W  | 3.9x3.8x1.4        | 100                         | 0.5                | 0.5                | 2                           | UL/TUV/CE            | 18.49   | 17.49   | 16.49   |
| 323302                    | Mean Well    | RS-25-15      | +15V @ 0-1.7A                              | 25.5W  | 3.0x2.0x1.1        | 120                         | 0.5                | 0.5                | 1                           | UL/CUL/TUV/CE/CB     | 18.49   | 16.95   | 15.95   |
| 323345                    | Mean Well    | RS-35-15      | +15V @ 0-2.4A                              | 36W    | 3.9x3.2x1.4        | 120                         | 0.5                | 0.5                | 1                           | UL/CUL/TUV/CE/CB     | 19.95   | 18.95   | 17.95   |
| 155053                    | Skyenet      | SNP-9548-M1   | +15V @ 2.6A                                | 39W    | 5.0x3.0x1.2        | 100                         | 1.0                | 1.0                | —                           | UL/CUL/CSA           | 19.95   | 17.95   | 15.95   |
| 202140                    | Mean Well    | S-40-15       | +15V @ 0-2.8A                              | 42W    | 5.1x3.9x1.5        | 100                         | 0.5                | 0.5                | 2                           | UL/CUL/TUV/CE/CB     | 21.49   | 19.95   | 18.95   |
| 323409                    | Mean Well    | RS-50-15      | +15V @ 0-3.4A                              | 51W    | 3.9x3.8x1.4        | 120                         | 0.5                | 0.5                | 1                           | UL/CUL/TUV/CE/CB     | 23.95   | 21.95   | 19.95   |
| 123343                    | Mean Well    | S-60-15       | +15V @ 0-4A                                | 60W    | 6.3x3.8x1.5        | 150                         | 0.5                | 0.5                | 2                           | UL/CUL/TUV/CE/CB     | 23.49   | 21.95   | 20.95   |
| 323602                    | Mean Well    | RS-75-15      | +15V @ 0-5A                                | 75W    | 5.1x3.9x1.5        | 120                         | 0.5                | 0.5                | 1                           | UL/CUL/TUV/CE/CB     | 26.95   | 24.95   | 22.95   |
| 194845                    | Mean Well    | SP-75-15      | +15V @ 0-5A                                | 75W    | 7.0x3.9x1.3        | 80                          | 0.5                | 0.5                | 3                           | UL/CUL/TUV/CE/CB     | 42.95   | 39.95   | 37.95   |
| 212450                    | Mean Well    | S-100F-15     | +15V @ 0-6.7A                              | 100.5W | 7.8x3.9x1.5        | 125                         | 0.5                | 0.5                | 2                           | UL/CUL/TUV/CE/CB     | 28.95   | 26.95   | 24.95   |
| 212433                    | Mean Well    | SP-100-15     | +15V @ 0-6.7A                              | 100.5W | 7.0x3.9x1.8        | 100                         | 0.5                | 0.5                | 3                           | UL/CUL/TUV/CE/CB/PFC | 49.95   | 46.95   | 43.95   |
| 323724                    | Mean Well    | RS-100-15     | +15V @ 0-7A                                | 105W   | 6.3x3.8x1.5        | 120                         | 0.5                | 0.5                | 1                           | UL/CUL/TUV/CE/CB     | 36.95   | 34.95   | 32.95   |
| 123432                    | Mean Well    | S-150-15      | +15V @ 0-10A                               | 150W   | 7.0x4.3x2.0        | 180                         | 0.3                | 0.3                | 2                           | UL/CUL/TUV/CE/CB     | 34.95   | 32.49   | 29.95   |
| 323847                    | Mean Well    | RS-150-15     | +15V @ 0-10A                               | 150W   | 7.8x3.9x1.5        | 120                         | 0.5                | 0.5                | 1                           | UL/CUL/TUV/CE/CB     | 41.95   | 38.95   | 35.95   |
| 173412                    | Mean Well    | SP-150-15     | +15V @ 0-10A                               | 150W   | 7.0x3.9x2.0        | 100                         | 0.5                | 0.5                | 3                           | UL/CUL/TUV/CE/CB/PFC | 56.95   | 52.95   | 49.95   |
| 2094856                   | Mean Well    | HRPG-150-15   | +15V @ 0-10A                               | 150W   | 6.3x3.8x1.5        | 150                         | 0.5                | 0.3                | 6                           | UL/CUL/TUV/CE/CB/PFC | 84.95   | 79.95   | 74.95   |
| 202060                    | Mean Well    | SP-200-15     | +15V @ 0-13.4A                             | 201W   | 7.0x3.9x2.0        | 100                         | 0.5                | 0.5                | 3                           | UL/CUL/TUV/CE/CB/PFC | 62.95   | 58.95   | 54.95   |
| 202076                    | Mean Well    | S-240-15      | +15V @ 0-15A                               | 225W   | 7.5x3.7x2.6        | 150                         | 0.5                | 0.5                | 2                           | UL/CUL/TUV/CE/CB/PFC | 74.95   | 69.95   | 66.95   |
| 2101500                   | Mean Well    | SP-240-15     | +15V @ 0-16A                               | 240W   | 7.5x3.7x2.0        | 150                         | 0.5                | 0.3                | 3                           | UL/CUL/TUV/CE/CB/PFC | 64.95   | 59.95   | 55.95   |
| 374993                    | Mean Well    | S-320-15      | +15V @ 0-20A                               | 300W   | 8.5x4.5x2.0        | 150                         | 0.5                | 0.5                | 2                           | UL/CUL               | 69.95   | 64.95   | 59.95   |
| 693610                    | Mean Well    | SP-320-15     | +15V @ 0-20A                               | 300W   | 8.5x4.5x2.0        | 150                         | 0.5                | 0.3                | 3                           | UL/CUL/TUV/CE/CB/PFC | 74.95   | 69.95   | 64.95   |
| 693652                    | Mean Well    | SP-480-15     | +15V @ 0-35A                               | 480W   | 10.9x5.0x1.7       | 150                         | 0.5                | 0.3                | 3                           | UL/CUL/TUV/CE/CB/PFC | 154.95  | 144.95  | 134.95  |
| 291522                    | Mean Well    | SE-600-15     | +15V @ 0-40A                               | 600W   | 9.7x5.0x2.5        | 150                         | 0.5                | 0.5                | 2                           | UL/CUL               | 114.95  | 106.95  | 99.95   |
| 374222                    | Mean Well    | PSP-600-15    | +15V @ 0-40A                               | 600W   | 6.7x4.7x3.7        | 240                         | 0.5                | 0.5                | 5                           | UL/CUL/TUV/CE/CB/PFC | 144.95  | 134.95  | 124.95  |
| 374045                    | Mean Well    | SCN-600-15    | +15V @ 0-40A                               | 600W   | 11.5x5.2x2.7       | 150                         | 0.5                | 0.5                | 4                           | UL/CUL/CB            | 199.95  | 189.95  | 179.95  |
| 2094901                   | Mean Well    | HRPG-600-15   | +15V @ 0-43A                               | 645W   | 8.6x4.1x2.5        | 150                         | 0.5                | 0.3                | 6                           | UL/CUL/TUV/CE/CB/PFC | 189.95  | 174.95  | 164.95  |
| 374029                    | Mean Well    | SP-750-15     | +15V @ 0-50A                               | 750W   | 10.9x5.0x2.5       | 120                         | 0.5                | 0.3                | 3                           | UL/CUL/TUV/CE/CB     | 199.95  | 184.95  | 169.95  |
| 231693                    | Mean Well    | PSP-1500-15   | +15V @ 0-90A                               | 1350W  | 10.9x5.1x7.5       | 150                         | 0.5                | 0.3                | 5                           | UL/CUL/TUV/CE/CB     | 499.95  | 474.95  | 449.95  |
| 694920                    | Mean Well    | RSP-1500-15   | +15V @ 0-100A                              | 1500W  | 10.9x5.0x3.3       | 150                         | 0.5                | 0.5                | 5                           | UL/CUL/TUV/CE/CB/PFC | 424.95  | 389.95  | 359.95  |
| 1919078                   | Mean Well    | RS-15-24      | +24V @ 0-0.625A                            | 15W    | 2.5x2.0x1.1        | 200                         | 0.5                | 0.5                | 1                           | UL/CUL/TUV/CE/CB     | 14.95   | 13.95   | 12.95   |
| 123272                    | Mean Well    | S-25-24       | +24V @ 0-1.1A                              | 26.4W  | 3.9x3.8x1.4        | 100                         | 0.5                | 0.5                | 2                           | UL/TUV/CE            | 18.49   | 17.49   | 16.49   |
| 323311                    | Mean Well    | RS-25-24      | +24V @ 0-1.1A                              | 26.4W  | 3.0x2.0x1.1        | 120                         | 0.5                | 0.5                | 1                           | UL/CUL/TUV/CE/CB     | 18.49   | 16.95   | 15.95   |
| 323353                    | Mean Well    | RS-35-24      | +24V @ 0-1.5A                              | 36W    | 3.9x3.2x1.4        | 120                         | 0.5                | 0.5                | 1                           | UL/CUL/TUV/CE/CB     | 19.95   | 18.95   | 17.95   |
| 689792                    | Metapo       | 1M041C24-1M   | +24V @ 0-1.8A                              | 43W    | 4.8x3.8x1.5        | 100                         | —                  | —                  | —                           | UL/CUL/TUV/CE        | 19.95   | 17.95   | 15.95   |
| 123319                    | Mean Well    | S-40-24       | +24V @ 0-1.8A                              | 43W    | 5.1x3.9x1.5        | 100                         | 0.5                | 0.5                | 2                           | UL/CUL/TUV/CE/CB     | 21.49   | 19.95   | 18.95   |
| 2104225                   | Mean Well    | NES-50-24     | +24V @ 0-2.2A                              | 52.8W  | 5.1x3.9x1.5        | 200                         | 0.5                | 0.5                | —                           | UL/CUL/CE/CB         | 23.95   | 21.95   | 19.95   |
| 323417                    | Mean Well    | RS-50-24      | +24V @ 0-2.2A                              | 52.8W  | 3.9x3.8x1.4        | 120                         | 0.5                | 0.5                | 1                           | UL/CUL/TUV/CE/CB     | 23.95   | 21.95   | 19.95   |
| 123352                    | Mean Well    | S-60-24       | +24V @ 0-2.5A                              | 60W    | 6.3x3.8x1.5        | 150                         | 0.5                | 0.5                | 2                           | UL/CUL/TUV/CE/CB     | 23.49   | 21.95   | 20.95   |
| 323620                    | Mean Well    | RS-75-24      | +24V @ 0-3.2A                              | 76.8W  | 5.1x3.9x1.5        | 120                         | 0.5                | 0.5                | 1                           | UL/CUL/TUV/CE/CB     | 26.95   | 24.95   | 22.95   |
| 194854                    | Mean Well    | SP-75-24      | +24V @ 0-3.2A                              | 76.8W  | 7.0x3.9x1.3        | 100                         | 0.5                | 0.5                | 3                           | UL/CUL/TUV/CE/CB     | 44.95   | 42.49   | 39.95   |

\* Primary Output

More Enclosed Switching Power Supplies on pages 137-138 & 140-142

\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

# Enclosed Switching AC-to-DC Power Supplies

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## Enclosed Switching AC-to-DC Power Supplies (Continued)



PSP-500

\*Web Code: EPS

| Part No.                  | Manufacturer | Mfr. Part No. | Output                                      |         | Size<br>(L"xW"xH") | Ripple & Noise<br>(mV p-p)* | Load Reg.<br>(±%)* | Line Reg.<br>(±%)* | Additional Info<br>Pg. 138↑ | Certification        | Pricing |         |         |  |
|---------------------------|--------------|---------------|---|---------|--------------------|-----------------------------|--------------------|--------------------|-----------------------------|----------------------|---------|---------|---------|--|
|                           |              |               | Voltage @ Current (min-max)                 | Power   |                    |                             |                    |                    |                             |                      | 1       | 5       | 25      |  |
| Single Output (Continued) |              |               |   |         |                    |                             |                    |                    |                             |                      |         |         |         |  |
| 194812                    | Mean Well    | SP-100-24     | +24V @ 0-4.2A                               | 100.8W  | 7.0x3.9x1.8        | 150                         | 0.5                | 0.5                | 3                           | UL/CUL/TUV/CE/CB/PFC | \$49.95 | \$46.95 | \$43.95 |  |
| 201971                    | Mean Well    | S-100F-24     | +24V @ 0-4.5A                               | 108W    | 7.8x3.9x1.5        | 150                         | 0.5                | 0.5                | 2                           | UL/TUV/CE/CB         | 28.95   | 26.95   | 24.95   |  |
| 323732                    | Mean Well    | RS-100-24     | +24V @ 0-4.5A                               | 108W    | 6.3x3.8x1.5        | 120                         | 0.5                | 0.5                | 1                           | UL/CUL/TUV/CE/CB     | 36.95   | 34.95   | 32.95   |  |
| 155651                    | Power One    | MAP110-1024CM | +24V @ 5A or +28V @ 4.3A                    | 110W    | 7.0x4.3x1.8        | 240                         | 0.5                | 1.0                | —                           | UL/CSA/TUV           | 34.95   | 29.95   | 26.95   |  |
| 1945920                   | APS          | RP1150-24C    | +24V @ 0-6.25A                              | 150W    | 7.5x4.2x2.0        | 100                         | 1.0                | 1.0                | —                           | UL/CE                | 39.95   | 36.95   | 33.95   |  |
| 173404                    | Mean Well    | SP-150-24     | +24V @ 0-6.25A                              | 150W    | 7.0x3.9x2.0        | 150                         | 0.5                | 0.5                | 3                           | UL/CUL/TUV/CE/CB/PFC | 56.95   | 52.95   | 49.95   |  |
| 371012                    | Potrans      | GL150W-24-NC  | +24V @ 6.5A                                 | 156W    | 7.8x3.7x2.5        | 180                         | 2.0                | 2.0                | —                           | UL/CUL/TUV/CE        | 29.95   | 26.95   | 23.95   |  |
| 123450                    | Mean Well    | S-150-24      | +24V @ 0-6.5A                               | 156W    | 7.0x4.3x2.0        | 240                         | 0.2                | 0.2                | 2                           | UL/CUL/TUV/CE/CB     | 34.95   | 32.49   | 29.95   |  |
| 2079429                   | PowerLD      | PD-150-24     | +24V @ 0-6.5A                               | 156W    | 7.8x3.9x1.5        | 120                         | 1.0                | 0.5                | —                           | UL/CUL/CE            | 39.95   | 36.95   | 33.95   |  |
| 323855                    | Mean Well    | RS-150-24     | +24V @ 0-6.5A                               | 156W    | 7.8x3.9x1.5        | 120                         | 0.5                | 0.5                | 1                           | UL/CUL/TUV/CE/CB     | 41.95   | 38.95   | 35.95   |  |
| 2094864                   | Mean Well    | HRPG-150-24   | +24V @ 0-6.5A                               | 156W    | 6.3x3.8x1.5        | 150                         | 0.5                | 0.3                | 6                           | UL/CUL/TUV/CE/CB/PFC | 84.95   | 79.95   | 74.95   |  |
| 689750                    | Potrans      | FS-20024-1M   | +24V @ 0-8.3A                               | 200W    | 7.8x4.3x2.0        | 150                         | 0.5                | 0.5                | —                           | UL/CSA/CE/TUV        | 49.95   | 44.95   | 39.95   |  |
| 194782                    | Mean Well    | SP-200-24     | +24V @ 0-8.4A                               | 201.6W  | 7.0x3.9x2.0        | 150                         | 0.5                | 0.5                | 3                           | UL/CUL/TUV/CE/CB/PFC | 62.95   | 58.95   | 54.95   |  |
| 137657                    | Mean Well    | S-240-24      | +24V @ 0-10A                                | 240W    | 7.5x3.7x2.6        | 180                         | 0.5                | 0.5                | 2                           | UL/CUL/TUV/CE/CB/PFC | 74.95   | 69.95   | 66.95   |  |
| 2101518                   | Mean Well    | SP-240-24     | +24V @ 0-10A                                | 240W    | 7.5x3.7x2.0        | 150                         | 0.5                | 0.2                | 3                           | UL/CUL/TUV/CE/CB/PFC | 64.95   | 59.95   | 55.95   |  |
| 196657                    | Mean Well    | S-320-24      | +24V @ 0-12.5A                              | 300W    | 8.5x4.5x2.0        | 150                         | 0.5                | 0.5                | 2                           | UL/CUL               | 69.95   | 64.95   | 59.95   |  |
| 244752                    | Mean Well    | SP-320-24     | +24V @ 0-13.0A at 230VAC; 0-10.4A @ 115VAC  | 312W    | 8.5x4.5x2.0        | 150                         | 0.5                | 0.2                | 3                           | UL/CUL/TUV/CE/CB/PFC | 74.95   | 69.95   | 64.95   |  |
| 2102220                   | Mean Well    | HRP-300-24    | +24V @ 0-14A                                | 336W    | 7.7x4.1x1.6        | 150                         | 0.5                | 0.2                | 3                           | UL/CUL/TUV/CE/CB/PFC | 114.95  | 104.95  | 94.95   |  |
| 2094881                   | Mean Well    | HRPG-300-24   | +24V @ 0-14A                                | 336W    | 7.8x4.1x1.6        | 150                         | 0.5                | 0.3                | 6                           | UL/CUL/TUV/CE/CB/PFC | 119.95  | 114.95  | 109.95  |  |
| 2101606                   | Mean Well    | SE-450-24     | +24V @ 0-18.8A                              | 451.2W  | 8.9x4.9x2.0        | 200                         | 0.5                | 0.2                | —                           | UL/CUL               | 99.95   | 92.95   | 86.95   |  |
| 301322                    | Mean Well    | SP-480-24     | +24V @ 0-20.0A at 230VAC; 0-18A @ 115VAC    | 480W    | 10.9x5.0x1.7       | 150                         | 0.5                | 0.2                | 3                           | UL/CUL/TUV/CE/CB/PFC | 154.95  | 144.95  | 134.95  |  |
| 147054                    | Mean Well    | SP-500-24     | +24V @ 0-20.0A at 230VAC; 0-17A @ 115VAC    | 480W    | 6.7x4.7x3.7        | 240                         | 0.5                | 0.5                | 3                           | UL/CUL/TUV/CE/CB/PFC | 149.95  | 139.95  | 129.95  |  |
| 190722                    | Mean Well    | PSP-500-24    | +24V @ 0-20.8A at 230VAC; 0-16.6A @ 115VAC  | 499.2W  | 10.9x5.1x7.5       | 150                         | 0.5                | 0.2                | 5                           | UL/CUL/TUV/CE/CB/PFC | 219.95  | 209.95  | 199.95  |  |
| 295902                    | Mean Well    | SE-600-24     | +24V @ 0-25A                                | 600W    | 9.7x5.0x2.5        | 150                         | 0.5                | 0.5                | 2                           | UL/CUL               | 114.95  | 106.95  | 99.95   |  |
| 374231                    | Mean Well    | PSP-600-24    | +24V @ 0-25A                                | 600W    | 6.7x4.7x3.7        | 240                         | 0.5                | 0.5                | 5                           | UL/CUL/TUV/CE/CB/PFC | 144.95  | 134.95  | 124.95  |  |
| 220265                    | Mean Well    | SCN-600-24    | +24V @ 0-25A                                | 600W    | 11.5x5.2x2.7       | 240                         | 1.0                | 0.5                | 4                           | UL/CUL/CB            | 224.95  | 209.95  | 194.95  |  |
| 374264                    | Mean Well    | SCP-600-24    | +24V @ 0-25A                                | 600W    | 11.4x4.7x2.7       | 240                         | 0.5                | 0.5                | 5                           | UL/CUL/TUV/CE/CB/PFC | 299.95  | 279.95  | 259.95  |  |
| 320048                    | Mean Well    | SP-750-24     | +24V @ 0-31.3A                              | 750W    | 10.9x5.0x2.5       | 120                         | 0.5                | 0.2                | 3                           | UL/CUL/TUV/CE/CB     | 219.95  | 199.95  | 184.95  |  |
| 374310                    | Mean Well    | SCP-800-24    | +24V @ 0-33A                                | 792W    | 11.4x4.7x2.7       | 240                         | 0.5                | 0.5                | 5                           | UL/CUL/TUV/CE/CB     | 269.95  | 249.95  | 229.95  |  |
| 217358                    | Mean Well    | PSP-1000-24   | +24V @ 0-37.6A at 230VAC; 0-32A @ 115VAC    | 902.4W  | 10.9x5.1x5.0       | 150                         | 0.5                | 0.2                | 5                           | UL/CUL/TUV/CE/CB/PFC | 359.95  | 329.95  | 299.95  |  |
| 1585717                   | Mean Well    | RSP-1000-24   | +24V @ 0-40A                                | 960W    | 11.6x5.0x1.6       | 150                         | 0.5                | 0.5                | 5                           | UL/CUL/TUV/CE/CB/PFC | 319.95  | 299.95  | 279.95  |  |
| 373923                    | Mean Well    | PSP-1500-24   | +24V @ 0-56.4A                              | 1353.6W | 10.9x5.1x7.5       | 150                         | 0.5                | 0.2                | 5                           | UL/CUL/TUV/CE/CB/PFC | 499.95  | 474.95  | 449.95  |  |
| 694938                    | Mean Well    | RSP-1500-24   | +24V @ 0-63A                                | 1512W   | 10.9x5.0x3.3       | 150                         | 0.5                | 0.5                | 5                           | UL/CUL/TUV/CE/CB/PFC | 424.95  | 389.95  | 359.95  |  |
| 693409                    | Mean Well    | SP-75-27      | +27V @ 0-2.8A                               | 75.6W   | 7.0x3.9x1.3        | 100                         | 0.5                | 0.5                | 3                           | UL/CUL/TUV/CE/CB     | 44.95   | 42.49   | 39.95   |  |
| 202033                    | Mean Well    | S-150-27      | +27V @ 0-5.6A                               | 151.2W  | 7.0x4.3x2.0        | 240                         | 0.2                | 0.2                | 2                           | UL/CUL/TUV/CE/CB     | 34.95   | 32.49   | 29.95   |  |
| 693513                    | Mean Well    | SP-150-27     | +27V @ 0-5.6A                               | 151.2W  | 7.8x3.9x2.0        | 150                         | 0.5                | 0.5                | —                           | UL/CUL/TUV/CE/CB/PFC | 56.95   | 52.95   | 49.95   |  |
| 693548                    | Mean Well    | SP-200-27     | +27V @ 0-7.5A                               | 202.5W  | 7.0x3.9x2.0        | 150                         | 0.5                | 0.5                | 3                           | UL/CUL/TUV/CE/CB/PFC | 62.95   | 58.95   | 54.95   |  |
| 693581                    | Mean Well    | S-320-27      | +27V @ 0-11.0A                              | 297W    | 8.5x4.5x2.0        | 200                         | 0.5                | 0.5                | 2                           | UL/CUL               | 69.95   | 64.95   | 59.95   |  |
| 693628                    | Mean Well    | SP-320-27     | +27V @ 0-11.7A                              | 315.9W  | 8.5x4.5x2.0        | 200                         | 0.5                | 0.2                | 3                           | UL/CUL/TUV/CE/CB/PFC | 74.95   | 69.95   | 64.95   |  |
| 190706                    | Mean Well    | SP-500-27     | +27V @ 0-18A at 230VAC; 0-15.3A @ 115VAC    | 486W    | 6.7x4.7x3.7        | 200                         | 0.5                | 0.5                | 3                           | UL/CUL/TUV/CE/CB/PFC | 149.95  | 139.95  | 129.95  |  |
| 190731                    | Mean Well    | PSP-500-27    | +27V @ 0-18.5A at 230VAC; 0-14.8A @ 115VAC  | 499.5W  | 10.9x5.1x7.5       | 150                         | 0.5                | 0.2                | 5                           | UL/CUL/TUV/CE/CB/PFC | 219.95  | 209.95  | 199.95  |  |
| 295911                    | Mean Well    | SE-600-27     | +27V @ 0-22.2A                              | 599.4W  | 9.7x5.0x2.5        | 150                         | 0.5                | 0.5                | 2                           | UL/CUL               | 114.95  | 106.95  | 99.95   |  |
| 374257                    | Mean Well    | PSP-600-27    | +27V @ 0-22.2A                              | 600W    | 6.7x4.7x3.7        | 240                         | 0.5                | 0.5                | 5                           | UL/CUL/TUV/CE/CB/PFC | 149.95  | 139.95  | 129.95  |  |
| 374038                    | Mean Well    | SP-750-27     | +27V @ 0-27.8A                              | 750W    | 10.9x5.0x2.5       | 120                         | 0.5                | 0.2                | 3                           | UL/CUL/TUV/CE/CB     | 219.95  | 199.95  | 184.95  |  |
| 231652                    | Mean Well    | PSP-1000-27   | +27V @ 0-33.6A at 230VAC; 0-28.6A at 115VAC | 907.2W  | 10.9x5.1x5.0       | 150                         | 0.5                | 0.2                | 5                           | UL/CUL/TUV/CE/CB/PFC | 449.95  | 419.95  | 394.95  |  |
| 1585709                   | Mean Well    | RSP-1000-27   | +27V @ 0-37.0A                              | 999W    | 11.6x5.0x1.6       | 150                         | 0.5                | 0.5                | 5                           | UL/CUL/TUV/CE/CB/PFC | 319.95  | 299.95  | 279.95  |  |
| 231714                    | Mean Well    | PSP-1500-27   | +27V @ 0-50.4A                              | 1360.8W | 10.9x5.1x7.5       | 150                         | 0.5                | 0.2                | 5                           | UL/CUL/TUV/CE/CB/PFC | 499.95  | 474.95  | 449.95  |  |
| 694946                    | Mean Well    | RSP-1500-27   | +27V @ 0-56.0A                              | 1512W   | 10.9x5.0x3.3       | 150                         | 0.5                | 0.5                | 5                           | UL/CUL/TUV/CE/CB/PFC | 424.95  | 389.95  | 359.95  |  |
| 392834                    | Mean Well    | S-240-30      | +30V @ 0-8A                                 | 240W    | 7.5x3.7x2.6        | 180                         | 0.5                | 0.5                | 2                           | UL/CUL/TUV/CE/CB/PFC | 74.95   | 69.95   | 66.95   |  |
| 2102473                   | Mean Well    | SP-240-30     | +30V @ 0-8A                                 | 240W    | 7.5x3.7x2.0        | 150                         | 0.5                | 0.2                | 3                           | UL/CUL/TUV/CE/CB/PFC | 64.95   | 59.95   | 55.95   |  |
| 2101753                   | Mean Well    | HRPG-600-36   | +36V @ 0-17.5A                              | 630W    | 8.6x4.1x2.5        | 200                         | 0.5                | 0.2                | 3                           | UL/CUL/TUV/CE/CB/PFC | 189.95  | 174.95  | 164.95  |  |
| 693249                    | Mean Well    | RS-50-48      | +48V @ 0-1.1A                               | 52.8W   | 3.9x3.8x1.4        | 200                         | 0.5                | 0.5                | 1                           | UL/CUL/TUV/CE/CB     | 23.95   | 21.95   | 19.95   |  |
| 216805                    | Mean Well    | SP-75-48      | +48V @ 0-1.6A                               | 76.8W   | 7.0x3.9x1.3        | 100                         | 0.5                | 0.5                | 3                           | UL/CUL/TUV/CE/CB/PFC | 44.95   | 42.49   | 39.95   |  |
| 216793                    | Mean Well    | S-100F-48     | +48V @ 0-2.2A                               | 105.6W  | 7.8x3.9x1.5        | 150                         | 0.5                | 0.5                | 2                           | UL/TUV/CE/CB         | 28.95   | 26.95   | 24.95   |  |
| 167346                    | Mean Well    | S-150-48      | +48V @ 0-3.2A                               | 153.6W  | 7.0x4.3x2.0        | 240                         | 0.2                | 0.2                | 2                           | UL/CUL/TUV/CE/CB     | 34.95   | 32.95   | 31.49   |  |
| 201930                    | Mean Well    | SP-150-48     | +48V @ 0-3.2A                               | 153.6W  | 7.0x3.9x2.0        | 250                         | 0.5                | 0.5                | 3                           | UL/CUL/TUV/CE/CB/PFC | 56.95   | 52.95   | 49.95   |  |
| 323863                    | Mean Well    | RS-150-48     | +48V @ 0-3.3A                               | 158.4W  | 7.8x3.9x1.5        | 200                         | 0.5                | 0.5                | 1                           | UL/CUL/TUV/CE/CB     | 41.95   | 38.95   | 35.95   |  |
| 202068                    | Mean Well    | SP-200-48     | +48V @ 0-4.2A                               | 201.6W  | 7.0x3.9x2.0        | 250                         | 0.5                | 0.5                | 3                           | UL/CUL/TUV/CE/CB/PFC | 62.95   | 58.95   | 54.95   |  |
| 167338                    | Mean Well    | S-240-48      | +48V @ 0-5.0A                               | 240W    | 7.5x3.7x2.6        | 240                         | 1.0                | 1.0                | 2                           | UL/CUL/TUV/CE/CB/PFC | 74.95   | 69.95   | 66.95   |  |
| 2102481                   | Mean Well    | SP-240-48     | +48V @ 0-5A                                 | 240W    | 7.5x3.7x2.0        | 150                         | 0.5                | 0.2                | 3                           | UL/CUL/TUV/CE/CB/PFC | 64.95   | 59.95   | 55.95   |  |
| 689776                    | Metapo       | 1M321C48-0M   | +48V @ 0-6.5A                               | 312W    | 7.5x4.5x2.0        | 240                         | 0.5                | 0.5                | —                           | UL/CUL               | 66.95   | 62.95   | 59.95   |  |
| 207191                    | Mean Well    | S-320-48      | +48V @ 0-6.5A                               | 312W    | 8.5x4.5x2.0        | 240                         | 0.5                | 0.5                | 2                           | UL/CUL               | 69.95   | 64.95   | 59.95   |  |
| 244770                    | Mean Well    | SP-320-48     | +48V @ 0-6.7A at 230VAC; 0-5.4A @ 115VAC    | 321.6W  | 8.5x4.5x2.0        | 240                         | 0.5                | 0.2                | 3                           | UL/CUL/TUV/CE/CB/PFC | 74.95   | 69.95   | 64.95   |  |

\*Primary Output    ⚙ Blue Part No. = Limited Quantity Available

More Enclosed Switching Power Supplies on pages 137-139 & 141-142

RoHS compliant product    + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.    Details on page 197.



## Enclosed Switching AC-to-DC Power Supplies (Continued)



★ Web Code: EPS

| Part No.                  | Manufacturer | Mfr. Part No. | Output   |  | Size<br>(L"xW"xH") | Ripple &<br>Noise<br>(mV p-p)* | Load<br>Reg.<br>(±%)* | Line<br>Reg.<br>(±%)* | Additional<br>Info<br>Pg. 138† | Certification | Pricing              |          |          |          |
|---------------------------|--------------|---------------|--|--|--------------------|--------------------------------|-----------------------|-----------------------|--------------------------------|---------------|----------------------|----------|----------|----------|
|                           |              |               | Voltage @ Current (min-max)                                |  |                    |                                |                       |                       |                                |               | Power                | 1        | 5        | 25       |
| Single Output (Continued) |              |               |  |  |                    |                                |                       |                       |                                |               |                      |          |          |          |
| 301402                    | Mean Well    | SP-480-48     | +48V @ 0-10.0A at 230VAC; 0-9A @ 115VAC                    |  | 480W               | 10.9x5.0x1.7                   | 240                   | 0.5                   | 0.2                            | 3             | UL/CUL/TUV/CE/CB/PFC | \$154.95 | \$144.95 | \$134.95 |
| 161796                    | Mean Well    | SP-500-48     | +48V @ 0-10.0A at 230VAC; 0-8.5A @ 115VAC                  |  | 480W               | 6.7x4.7x3.7                    | 300                   | 0.5                   | 0.5                            | 3             | UL/CUL/TUV/CE/CB/PFC | 149.95   | 139.95   | 129.95   |
| 190749                    | Mean Well    | PSP-500-48    | +48V @ 0-10.5A at 230VAC; 0-8.4A @ 115VAC                  |  | 504W               | 10.9x5.1x7.5                   | 200                   | 0.5                   | 0.2                            | 5             | UL/CUL/TUV/CE/CB/PFC | 219.95   | 209.95   | 199.95   |
| 374062                    | Mean Well    | SCN-600-48    | +48V @ 0-12.0A   |  | 576W               | 11.5x5.2x7.2                   | 480                   | 0.5                   | 0.5                            | 4             | UL/CUL/CB            | 224.95   | 209.95   | 194.95   |
| 295929                    | Mean Well    | SE-600-48     | +48V @ 0-12.5A   |  | 600W               | 9.7x5.0x2.5                    | 200                   | 0.5                   | 0.5                            | 2             | UL/CUL               | 114.95   | 106.95   | 99.95    |
| 374249                    | Mean Well    | PSP-600-48    | +48V @ 0-12.5A   |  | 600W               | 6.7x4.7x3.7                    | 240                   | 0.5                   | 0.5                            | 5             | UL/CUL/TUV/CE/CB/PFC | 149.95   | 139.95   | 129.95   |
| 217350                    | Mean Well    | PSP-1000-48   | +48V @ 0-19.0A at 230VAC; 0-16.2A @ 115VAC                 |  | 912W               | 10.9x5.1x5.0                   | 200                   | 0.5                   | 0.2                            | 5             | UL/CUL/TUV/CE/CB/PFC | 449.95   | 419.95   | 394.95   |
| 1585725                   | Mean Well    | RSP-1000-48   | +48V @ 0-21.0A   |  | 1008W              | 11.6x5.0x1.6                   | 150                   | 0.5                   | 0.5                            | 5             | UL/CUL/TUV/CE/CB     | 319.95   | 299.95   | 279.95   |
| 231722                    | Mean Well    | PSP-1500-48   | +48V @ 0-28.5A   |  | 1368W              | 10.9x5.1x7.5                   | 200                   | 0.5                   | 0.2                            | 5             | UL/CUL/TUV/CE/CB/PFC | 529.95   | 489.95   | 449.95   |
| 694954                    | Mean Well    | RSP-1500-48   | +48V @ 0-32.0A   |  | 1536W              | 10.9x5.0x3.3                   | 200                   | 0.5                   | 0.5                            | 5             | UL/CUL/TUV/CE/CB/PFC | 424.95   | 389.95   | 359.95   |
| Double Output             |              |               |  |  |                    |                                |                       |                       |                                |               |                      |          |          |          |
| 323362                    | Mean Well    | RD-35A        | +5V @ 0.3-4A; +12V @ 0.2-1A                                |  | 32W                | 3.9x3.2x1.4                    | 80                    | 0.5                   | 0.5                            | 1             | UL/CUL/TUV/CE/CB     | \$28.95  | \$26.95  | \$24.95  |
| 323380                    | Mean Well    | RD-35B        | +5V @ 0.3-4A; +24V @ 0.2-1.3A                              |  | 51.2W              | 3.9x3.2x1.4                    | 80                    | 0.5                   | 0.5                            | 1             | UL/CUL/TUV/CE/CB     | 28.95    | 26.95    | 24.95    |
| 323425                    | Mean Well    | RD-50A        | +5V @ 0.3-6A; +12V @ 0.3-3A                                |  | 54W                | 3.9x3.8x1.4                    | 80                    | 0.5                   | 0.5                            | 1             | UL/CUL/TUV/CE/CB     | 32.95    | 29.95    | 27.49    |
| 323433                    | Mean Well    | RD-50B        | +5V @ 0.3-6A; +24V @ 0.2-2A                                |  | 53.6W              | 3.9x3.8x1.4                    | 80                    | 0.5                   | 0.5                            | 1             | UL/CUL/TUV/CE/CB     | 32.95    | 29.95    | 27.49    |
| 123458                    | Mean Well    | D-60A         | +5V @ 0.3-4A; +12V @ 0.2-3A                                |  | 56W                | 6.3x3.8x1.5                    | 75                    | 0.5                   | 0.5                            | 2             | UL/CUL/TUV/CE/CB     | 29.95    | 27.95    | 25.95    |
| 123466                    | Mean Well    | D-60B         | +5V @ 0.3-3A; +24V @ 0.2-1.8A                              |  | 58W                | 6.3x3.8x1.5                    | 75                    | 0.5                   | 0.5                            | 2             | UL/CUL/TUV/CE/CB     | 29.95    | 27.95    | 25.95    |
| 323505                    | Mean Well    | RD-65A        | +5V @ 0.3-8A; +12V @ 0.2-4A                                |  | 66W                | 5.1x3.9x1.5                    | 80                    | 0.5                   | 0.5                            | 1             | UL/CUL/TUV/CE/CB     | 35.95    | 32.95    | 29.95    |
| 323513                    | Mean Well    | RD-65B        | +5V @ 0.3-8A; +24V @ 0.2-3A                                |  | 68W                | 5.1x3.9x1.5                    | 80                    | 0.5                   | 0.5                            | 1             | UL/CUL/TUV/CE/CB     | 35.95    | 32.95    | 29.95    |
| 323628                    | Mean Well    | RD-85A        | +5V @ 2.0-10A; +12V @ 0.3-5A                               |  | 88W                | 6.3x3.8x1.5                    | 80                    | 1.0                   | 0.5                            | 1             | UL/CUL/TUV/CE/CB     | 51.95    | 48.95    | 45.95    |
| 132410                    | Mean Well    | D-120A        | +5V @ 2.0-12A; +12V @ 0.5-5A                               |  | 120W               | 7.0x3.9x2.0                    | 60                    | 0.5                   | 0.5                            | 2             | UL/CUL/TUV/CE/CB     | 49.95    | 46.95    | 43.95    |
| 132397                    | Mean Well    | D-120B        | +5V @ 2.0-6A; +24V @ 0.4-4A                                |  | 126W               | 7.0x3.9x2.0                    | 60                    | 0.5                   | 0.5                            | 2             | UL/CUL/TUV/CE/CB     | 49.95    | 46.95    | 43.95    |
| 323741                    | Mean Well    | RD-125A       | +5V @ 2.0-15A; +12V @ 0.5-10A                              |  | 130.9W             | 7.8x3.9x1.5                    | 80                    | 3.0                   | 1.0                            | 1             | UL/CUL/TUV/CE/CB     | 53.95    | 49.95    | 46.95    |
| 323759                    | Mean Well    | RD-125B       | +5V @ 2.0-10A; +24V @ 0.4-5A                               |  | 133.4W             | 7.8x3.9x1.5                    | 80                    | 3.0                   | 1.0                            | 1             | UL/CUL/TUV/CE/CB     | 53.95    | 49.95    | 46.95    |
| 2106124                   | Mean Well    | RD-125-1224   | +12V @ 1.0-3.7A; +24V @ 0.4-3.7A                           |  | 133.2W             | 7.8x3.9x1.5                    | 120                   | 1.0                   | 0.5                            | 1             | UL/CUL/TUV/CE/CB     | 53.95    | 49.95    | 46.95    |
| Triple Output             |              |               |  |  |                    |                                |                       |                       |                                |               |                      |          |          |          |
| 201989                    | Mean Well    | T-40A         | +5V @ 0.6-3A; +12V @ 0.2-2A; -5V @ 0.1-0.5A                |  | 41.5W              | 5.1x3.9x1.5                    | 100                   | 0.5                   | 0.5                            | 2             | CSA/CE               | \$29.95  | \$27.95  | \$25.95  |
| 201997                    | Mean Well    | T-40B         | +5V @ 0.6-3A; +12V @ 0.2-2A; -12V @ 0.1-0.5A               |  | 45W                | 5.1x3.9x1.5                    | 100                   | 0.5                   | 0.5                            | 2             | CSA/CE               | 29.95    | 27.95    | 25.95    |
| 202009                    | Mean Well    | T-40C         | +5V @ 0.6-3A; +15V @ 0.2-1.5A; -15V @ 0.1-0.5A             |  | 45W                | 5.1x3.9x1.5                    | 100                   | 0.5                   | 0.5                            | 2             | CSA/CE               | 29.95    | 27.95    | 25.95    |
| 323442                    | Mean Well    | RT-50A        | +5V @ 0.5-5A; +12V @ 0.2-2.5A; -5V @ 0.5-5A                |  | 46.5W              | 3.9x3.8x1.4                    | 80                    | 1.0                   | 0.5                            | 1             | UL/CUL/TUV/CE/CB     | 33.95    | 31.95    | 29.95    |
| 323460                    | Mean Well    | RT-50B        | +5V @ 0.5-5A; +12V @ 0.2-2.5A; -12V @ 0.1-1A               |  | 50W                | 3.9x3.8x1.4                    | 80                    | 1.0                   | 0.5                            | 1             | UL/CUL/TUV/CE/CB     | 33.95    | 31.95    | 29.95    |
| 323468                    | Mean Well    | RT-50C        | +5V @ 0.5A; +15V @ 0.2-2A; -15V @ 0.1-1A                   |  | 50W                | 3.9x3.8x1.4                    | 80                    | 1.0                   | 0.5                            | 1             | UL/CUL/TUV/CE/CB     | 33.95    | 31.95    | 29.95    |
| 323476                    | Mean Well    | RT-50D        | +5V @ 0.5-5A; +12V @ 0.1-1A; +24V @ 0.2-1.5A               |  | 51W                | 3.9x3.8x1.4                    | 80                    | 1.0                   | 0.5                            | 1             | UL/CUL/TUV/CE/CB     | 33.95    | 31.95    | 29.95    |
| 123482                    | Mean Well    | T-60B         | +5V @ 0.5-5A; +12V @ 0.2-2.5A; -12V @ 0.0-5A               |  | 61W                | 6.3x3.8x1.5                    | 100                   | 1.0                   | 0.5                            | 2             | UL/CUL/TUV/CE/CB     | 33.95    | 31.95    | 29.95    |
| 123491                    | Mean Well    | T-60C         | +5V @ 0.5-5A; +15V @ 0.2-2A; -15V @ 0.0-5A                 |  | 62.5W              | 6.3x3.8x1.5                    | 100                   | 1.0                   | 0.5                            | 2             | UL/CUL/TUV/CE/CB     | 33.95    | 31.95    | 29.95    |
| 323540                    | Mean Well    | RT-65B        | +5V @ 0.5-8A; +12V @ 0.2-3.5A; -12V @ 0.1-1A               |  | 64.6W              | 5.1x3.9x1.5                    | 80                    | 1.0                   | 0.5                            | 1             | UL/CUL/TUV/CE/CB     | 38.95    | 35.95    | 33.95    |
| 323548                    | Mean Well    | RT-65C        | +5V @ 0.5-8A; +15V @ 0.2-3A; -15V @ 0.1-1A                 |  | 65.5W              | 5.1x3.9x1.5                    | 80                    | 1.0                   | 0.5                            | 1             | UL/CUL/TUV/CE/CB     | 38.95    | 35.95    | 33.95    |
| 323555                    | Mean Well    | RT-65D        | +5V @ 0.5-8A; +12V @ 0.1-1A; +24V @ 0.2-2A                 |  | 68W                | 5.1x3.9x1.5                    | 80                    | 1.0                   | 0.5                            | 1             | UL/CUL/TUV/CE/CB     | 38.95    | 35.95    | 33.95    |
| 323644                    | Mean Well    | RT-85A        | +5V @ 2-10A; +12V @ 0.3-4A; -5V @ 0.1-1A                   |  | 84.5W              | 6.3x3.8x1.5                    | 80                    | 1.0                   | 0.5                            | 1             | UL/CUL/TUV/CE/CB     | 39.95    | 36.95    | 34.95    |
| 323661                    | Mean Well    | RT-85C        | +5V @ 2-10A; +15V @ 0.3-4A; -15V @ 0.1-1A                  |  | 87.5W              | 6.3x3.8x1.5                    | 80                    | 1.0                   | 0.5                            | 1             | UL/CUL/TUV/CE/CB     | 39.95    | 36.95    | 34.95    |
| 323678                    | Mean Well    | RT-85D        | +5V @ 2-10A; +12V @ 0.1-1A; +24V @ 0.3-2.5A                |  | 90W                | 6.3x3.8x1.5                    | 80                    | 1.0                   | 0.5                            | 1             | UL/CUL/TUV/CE/CB     | 29.95    | 26.95    | 23.95    |
| 213794                    | Mean Well    | TP-100A       | +5V @ 3-10A; +12V @ 0.4-4A; -5V @ 0.0-6A                   |  | 100W               | 7.8x3.9x2.0                    | 100                   | 3.0                   | 1.0                            | 3             | UL/CUL/TUV/CE/CB/PFC | 69.95    | 62.95    | 56.95    |
| 213778                    | Mean Well    | TP-100C       | +5V @ 3-10A; +15V @ 0.4-3A; -15V @ 0.0-6A                  |  | 104W               | 7.8x3.9x2.0                    | 100                   | 3.0                   | 1.0                            | 3             | UL/CUL/TUV/CE/CB/PFC | 69.95    | 62.95    | 56.95    |
| 301509                    | Mean Well    | T-120B        | +5V @ 2-12A; +12V @ 0.5-5A; -12V @ 0.2-1A                  |  | 121W               | 7.0x3.9x2.0                    | 80                    | 0.5                   | 0.5                            | 2             | UL/CUL/TUV/CE/CB     | 52.95    | 48.95    | 44.95    |
| 323767                    | Mean Well    | RT-125A       | +5V @ 2-15A; +12V @ 0.5-6A; -5V @ 0.1-1A                   |  | 131W               | 7.8x3.9x1.5                    | 80                    | 1.0                   | 0.5                            | 1             | UL/CUL/TUV/CE/CB     | 44.95    | 39.95    | 35.95    |
| 323775                    | Mean Well    | RT-125B       | +5V @ 2-15A; +12V @ 0.5-6A; -12V @ 0.1-1A                  |  | 132W               | 7.8x3.9x1.5                    | 80                    | 1.0                   | 0.5                            | 1             | UL/CUL/TUV/CE/CB     | 54.95    | 49.95    | 46.95    |
| 323783                    | Mean Well    | RT-125C       | +5V @ 2-15A; +15V @ 0.5-6A; -15V @ 0.1-1A                  |  | 132.5W             | 7.8x3.9x1.5                    | 80                    | 1.0                   | 0.5                            | 1             | UL/CUL/TUV/CE/CB     | 54.95    | 49.95    | 46.95    |
| 323792                    | Mean Well    | RT-125D       | +5V @ 2-15A; +12V @ 0.1-2A; +24V @ 0.4-4A                  |  | 136W               | 7.8x3.9x1.5                    | 80                    | 1.0                   | 0.5                            | 1             | UL/CUL/TUV/CE/CB     | 54.95    | 49.95    | 46.95    |
| 213832                    | Mean Well    | TP-150C       | +5V @ 2-15A; +15V @ 0.4-4.5A; -15V @ 0.0-6A                |  | 151.5W             | 7.8x3.9x2.0                    | 100                   | 3.0                   | 1.0                            | 3             | UL/CUL/TUV/CE/CB/PFC | 64.95    | 59.95    | 54.95    |
| Quad Output               |              |               |  |  |                    |                                |                       |                       |                                |               |                      |          |          |          |
| 323484                    | Mean Well    | RQ-50B        | +5V @ 0.5-6A; +12V @ 0.2-1.5A; -5V @ 0.1A; -12V @ 0.1A     |  | 45.5W              | 3.9x3.8x1.4                    | 80                    | 0.5                   | 0.5                            | 1             | UL/CUL/TUV/CE/CB     | \$35.95  | \$33.95  | \$31.95  |
| 323492                    | Mean Well    | RQ-50D        | +5V @ 0.5-6A; +12V @ 0.2-1.5A; +24V @ 0.1-1A; -12V @ 0.1A  |  | 53.4W              | 3.9x3.8x1.4                    | 80                    | 0.5                   | 0.5                            | 1             | UL/CUL/TUV/CE/CB     | 35.95    | 33.95    | 31.95    |
| 147046                    | Mean Well    | Q-60B         | +5V @ 0.5-5.5A; +12V @ 0.1-2A; -5V @ 0.0-5A; -12V @ 0.0-5A |  | 60W                | 6.3x3.8x1.5                    | 100                   | 0.5                   | 0.5                            | 2             | UL/CUL/CE/CB         | 39.95    | 35.95    | 32.95    |
| 323564                    | Mean Well    | RQ-65B        | +5V @ 0.5-8A; +12V @ 0.2-3A; -5V @ 0.1A; -12V @ 0.1A       |  | 62.5W              | 5.1x3.9x1.5                    | 80                    | 0.5                   | 0.5                            | 1             | UL/CUL/TUV/CE/CB     | 39.95    | 36.95    | 34.95    |
| 323572                    | Mean Well    | RQ-65D        | +5V @ 0.5-8A; +12V @ 0.2-3A; +24V @ 0.1-1.5A; -12V @ 0.1A  |  | 68W                | 5.1x3.9x1.5                    | 80                    | 0.5                   | 0.5                            | 1             | UL/CUL/TUV/CE/CB     | 39.95    | 36.95    | 34.95    |
| 323695                    | Mean Well    | RQ-85D        | +5V @ 2-10A; +12V @ 0.3-4A; +24V @ 0.1-1.5A; -12V @ 0.1A   |  | 84W                | 6.3x3.8x1.5                    | 80                    | 1.0                   | 0.5                            | 1             | UL/CUL/TUV/CE/CB     | 54.95    | 51.95    | 48.95    |
| 132389                    | Mean Well    | Q-120B        | +5V @ 2-11A; +12V @ 0.5-4A; -5V @ 0.2-1A; -12V @ 0.2-1A    |  | 120W               | 7.0x3.9x2.0                    | 80                    | 0.5                   | 0.5                            | 2             | UL/CUL/TUV/CE/CB     | 54.95    | 51.95    | 48.95    |

\*Primary Output

More Enclosed Switching Power Supplies on pages 137-140 & 142

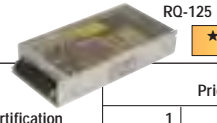
★ For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above




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## Enclosed Switching AC-to-DC Power Supplies (Continued)



\*Web Code: EPS

| Part No.                | Manufacturer | Mfr. Part No. | Output   |        | Size<br>(L"xW"xH") | Ripple & Noise<br>(mV p-p)* | Load Reg.<br>(%)* | Line Reg.<br>(±%)* | Additional Info<br>Pg. 138↑ |  Certification | Pricing |         |         |
|-------------------------|--------------|---------------|--|--------|--------------------|-----------------------------|-------------------|--------------------|-----------------------------|---|---------|---------|---------|
|                         |              |               | Voltage @ Current (min-max)                                  | Power  |                    |                             |                   |                    |                             |   | 1       | 5       | 25      |
| Quad Output (Continued) |              |               |  |        |                    |                             |                   |                    |                             |   |         |         |         |
| 323803                  | Mean Well    | RQ-125B       | +5V @ 2-12A; +12V @ 0.5-4.5A;<br>-5V @ 0.1-1A; -12V @ 0.1-1A | 120W   | 7.8x3.9x1.5        | 80                          | 1.0               | 0.5                | 1                           | UL/CUL/TUV/CE/CB  | \$58.95 | \$54.95 | \$51.95 |
| 132371                  | Mean Well    | Q-120D        | +5V @ 2-8A; +12V @ 0.2-2A;<br>+24V @ 0.2-2A; -12V @ 0.2-1A   | 124W   | 7.0x3.9x2.0        | 80                          | 0.5               | 0.5                | 2                           | UL/CUL/TUV/CE/CB  | 54.95   | 51.95   | 48.95   |
| 323812                  | Mean Well    | RQ-125D       | +5V @ 2-12A; +12V @ 0.5-4A;<br>+24V @ 0.1-2.5A; -12V @ 0-1A  | 124W   | 7.8x3.9x1.5        | 80                          | 1.0               | 0.5                | 1                           | UL/CUL/TUV/CE/CB  | 58.95   | 54.95   | 51.95   |
| 213648                  | Mean Well    | QP-150F       | +5V @ 3-10A; +15V @ 0-3A;<br>+24V @ 0.4-2A; -15V @ 0-0.6A    | 152W   | 7.8x3.9x1.5        | 120                         | 2.0               | 1.0                | 3                           | UL/CUL/TUV/CE/CB/PFC  | 109.95  | 99.95   | 89.95   |
| 213752                  | Mean Well    | QP-200D       | +5V @ 3-15A; +12V @ 0-4A<br>+24V @ 0.4-3A; -12V @ 0-0.7A     | 204.9W | 7.8x3.9x2.0        | 100                         | 2.0               | 1.0                | 3                           | UL/CUL/TUV/CE/CB/PFC  | 124.95  | 114.95  | 104.95  |

\*Primary Output

## Mounting Brackets & Accessories for Mean Well Enclosed Switching AC-to-DC Power Supplies

All brackets use metric screws: 2-F3 x 6, 2-F4 x 6, 2-T3 x 6, 2-T4 x 6 and 8-T4 x 6 (not included)

\*Web Code: MBM

| Part No. | Product No. | For Models  | 1      | 10     |
|----------|-------------|---|--------|--------|
| 222122   | DRL-01      | S-25/40, RS-25/35   | \$1.25 | \$1.09 |
| 222131   | DRL-02      | S-60/100F/150, D-60/120,<br>SD-100/150, SP-75/100/150/200 | 1.75   | 1.49   |
| 222148   | DRL-03      | S-240/320, SP-320   | 2.25   | 1.95   |
| 222157   | DRP-01      | All Models  | 2.49   | 2.25   |
| 222165   | DRP-02      | S-25, SP-75/100/150/200                                   | 1.95   | 1.75   |
| 222173   | DRP-03      | All Models  | 1.95   | 1.75   |
| 222182   | MHS012      | S-320/350, SP-100/150/200/320                             | .75    | .65    |
| 1952636  | MHS013      | PSP-500, SP-750, SE-600                                   | .85    | .75    |
| 222199   | MHS025      | SP-500, PSP-600   | .95    | .85    |
| 248736   | 2094.0      | DR, DRH, DRP, DRT, MDR                                    | 6.95   | 6.29   |



**Mating Connector**  
103588 \$1.20/10  
Spade Solderless Terminal

**Crimp Tool**  
72996 \$22.49  
Solderless Terminal Crimp Tool

Pricing & specs on page 91

## LED Enclosed Power Supplies with Power Factor Correction

### For Indoor and Outdoor Applications

- Suitable for LED lighting & moving sign application
- Short-circuit/overload/overvoltage/overtemperature protection

**PLN Series** • Plastic case • Constant voltage and current  
• Working temperature: -30°C to 50°C

**CLG Series** • Metal case • Adjustable voltage and current  
• Working temperature: -30°C to 70°C

**ELN Series** • Plastic case • Built-in constant current limiting circuit

**HLG Series** • Metal case • Adjustable voltage and constant current

- 100% full-load burn-in test
- Universal AC input/full range
- Inrush current: 40A/230VAC
- Two-year warranty

Inrush current: 40A/230VAC

Three-year warranty

Inrush current: 60A/230VAC

Inrush current: 75A/230VAC

- Cooling by free air convection
- UL1310 class 2 power unit



\*Web Code: LPP



PLN Series



| Part No. | Manufacturer | Mfr. Part No.    | Output                      |           | Size<br>(L" x W" x H") | Ripple & Noise<br>(mV p-p)* | Load Reg.<br>(%)* | Line Reg.<br>(%)* | Certification     | Pricing |         |         |
|----------|--------------|------------------|-----------------------------|-----------|------------------------|-----------------------------|-------------------|-------------------|-------------------|---------|---------|---------|
|          |              |                  | Voltage @ Current (min-max) | Power (W) |                        |                             |                   |                   |                   | 1       | 5       | 25      |
| 2120233  | Advance      | LED120A0012V10F# | +12V @ 1A                   | 12        | 5.2 x 1.3 x 1.0        | 2000                        | 5.0               | 1.0               | UL/CUL/CSA        | \$19.95 | \$17.95 | \$15.95 |
| 1954404  | Mean Well    | PLN-30-12        | +12V @ 0-2.5A               | 30        | 5.7 x 1.9 x 1.2        | 2000                        | 10.0              | 3.0               | UL/CUL/TUV/CE     | 33.95   | 31.95   | 29.95   |
| 1918913  | Mean Well    | PLN-60-12        | +12V @ 0-5A                 | 60        | 7.1 x 2.4 x 1.4        | 2000                        | 5.0               | 3.0               | UL/CUL/TUV/CE/PFC | 49.95   | 46.95   | 44.95   |
| 1918833  | Mean Well    | PLN-100-12       | +12V @ 0-5A                 | 60        | 7.9 x 2.8 x 1.4        | 150                         | 2.0               | 1.0               | UL/CUL/TUV/CE/PFC | 59.95   | 56.95   | 54.95   |
| 1954877  | Mean Well    | CLG-150-12A      | +12V @ 0-11A                | 132       | 8.7 x 2.7 x 1.5        | 150                         | 1.0               | 0.5               | UL/TUV/CE         | 84.95   | 79.95   | 74.95   |
| 1918964  | Mean Well    | PLN-60-15        | +15V @ 0-4A                 | 60        | 7.1 x 2.4 x 1.4        | 2400                        | 10.0              | 4.0               | UL/CUL/TUV/CE     | 49.95   | 46.95   | 44.95   |
| 1919001  | Mean Well    | CLG-60-15†       | +15V @ 0-4A                 | 60        | 6.8 x 2.4 x 1.5        | 2400                        | 10.0              | 4.0               | UL/CUL/TUV/CE     | 59.95   | 56.95   | 54.95   |
| 1918841  | Mean Well    | PLN-100-15       | +15V @ 0-5A                 | 75        | 7.9 x 2.8 x 1.4        | 150                         | 2.0               | 1.0               | UL/CUL/TUV/CE/PFC | 59.95   | 56.95   | 54.94   |
| 1585856  | Mean Well    | CLG-100-15†      | +15V @ 0-5A                 | 75        | 8.7 x 2.7 x 1.5        | 150                         | 2.0               | 1.0               | UL/CUL/TUV/CE/PFC | 77.95   | 72.95   | 67.95   |
| 1585864  | Mean Well    | CLG-100-20†      | +20V @ 0-4.8A               | 96        | 8.7 x 2.7 x 1.5        | 150                         | 2.0               | 1.0               | UL/CUL/TUV/CE/PFC | 77.95   | 72.95   | 67.95   |
| 1954412  | Mean Well    | PLN-30-24        | +24V @ 0-1.25A              | 30        | 5.7 x 1.9 x 1.2        | 2600                        | 10.0              | 3.0               | UL/CUL/TUV/CE     | 33.95   | 31.95   | 29.95   |
| 1918868  | Mean Well    | PLN-100-24       | +24V @ 0-4A                 | 96        | 7.9 x 2.8 x 1.4        | 150                         | 2.0               | 1.0               | UL/CUL/TUV/CE/PFC | 59.95   | 56.95   | 54.95   |
| 1585872  | Mean Well    | CLG-100-24†      | +24V @ 0-4A                 | 96        | 8.7 x 2.7 x 1.5        | 150                         | 2.0               | 1.0               | UL/CUL/TUV/CE/PFC | 77.95   | 72.95   | 67.95   |
| 1954885  | Mean Well    | CLG-150-24A      | +24V @ 0-6.3A               | 150       | 8.7 x 2.7 x 1.5        | 150                         | 1.0               | 0.5               | UL/TUV/CE         | 84.95   | 79.95   | 74.95   |
| 2102140  | Mean Well    | HLG-240-24A      | +24V @ 10A                  | 240       | 9.6 x 2.7 x 1.5        | 150                         | 0.5               | 0.5               | UL/CUL/TUV/CE/PFC | 118.95  | 106.95  | 99.95   |
| 2100574  | Mean Well    | PLN-60-27        | +27V @ 0-2.3A               | 62.1      | 7.1 x 2.4 x 1.4        | 2700                        | 5.0               | 3.0               | UL/CE             | 49.95   | 46.95   | 44.95   |
| 1585733  | Mean Well    | CLG-100-27†      | +27V @ 0-3.55A              | 96        | 8.7 x 2.7 x 1.5        | 150                         | 2.0               | 1.0               | UL/CUL/TUV/CE/PFC | 77.95   | 72.95   | 67.95   |
| 2105279  | Mean Well    | ELN-60-48        | +48V @ 0-1.3A               | 62.5      | 7.1 x 2.4 x 1.4        | 250                         | 2.0               | 1.0               | UL/CUL/TUV/CE/PFC | 33.95   | 31.95   | 29.95   |
| 1585768  | Mean Well    | CLG-100-48†      | +48V @ 0-2A                 | 96        | 8.7 x 2.7 x 1.5        | 150                         | 2.0               | 1.0               | UL/CUL/TUV/CE/PFC | 77.95   | 72.95   | 67.95   |

\* Primary Output # IP66 Rated † IP67 Rated

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 197.

# DIN-Rail Switching Power Supplies



## DIN-Rail Switching Power Supplies

- Short-circuit, overload, overvoltage protection
- Low cost, high reliability
- 100% full-load burn-in test

**UL-508**

- For DIN-Rail terminal blocks see pg 90
- Universal AC input range
- Soft-start circuit, limiting AC surge current

★ Web Code: RBY



373182 (Fig. 1)



1943300  
(Fig. 2)

Rail not included



192699 (Fig. 3)



1943393  
(Fig. 4)



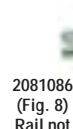
1943449  
(Fig. 5)



212291 (Fig. 6)



212274 (Fig. 7)



2081086  
(Fig. 8)  
Rail not included



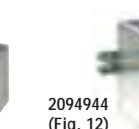
2101391  
(Fig. 9)  
Rail not included



221892 (Fig. 10)



252663 (Fig. 11)



2094944  
(Fig. 12)  
Rail not included

| Part No. | Mfr. Part No. | Fig. | Output Volts @ Curr. | Pwr (W) | Input Voltage (VAC @ Hz/VDC)    | Input Current @ Max Load | Size (L" x W" x H") | Wt. (lbs.) | 1       | 5       | 25      |
|----------|---------------|------|----------------------|---------|---------------------------------|--------------------------|---------------------|------------|---------|---------|---------|
| 2101243  | DR-15-5       | 1    | 5VDC @ 2.4A          | 12      | 85-264 @ 47-63/120-370          | 0.88A(115V)/0.48A(230V)  | 1.0 x 3.7 x 2.2     | 0.2        | \$21.49 | \$19.95 | \$18.95 |
| 373174   | DR-30-5       | 1    | 5VDC @ 3A            | 15      | 85-264 @ 47-63/120-370          | 1.1A(115V)/0.6A(230V)    | 1.1 x 3.7 x 2.2     | 0.6        | 24.95   | 22.95   | 21.49   |
| 1943300  | MDR-20-5      | 2    | 5VDC @ 3A            | 15      | 85-264 @ 47-63/120-370          | 0.55A(115V)/0.35A(230V)  | 3.9 x 0.9 x 3.5     | 0.4        | 25.95   | 24.49   | 22.95   |
| 212303   | DR-4505       | 3    | 5VDC @ 5A            | 25      | 85-264 @ 47-63/120-370          | 1.5A(115V)/0.75A(230V)   | 3.0 x 2.6 x 3.6     | 0.9        | 27.95   | 25.95   | 23.95   |
| 1943393  | MDR-40-5      | 4    | 5VDC @ 6A            | 30      | 85-264 @ 47-63/120-370          | 1.1A(115V)/0.7A(230V)    | 3.9 x 1.6 x 3.5     | 0.6        | 32.95   | 31.49   | 29.95   |
| 373212   | DR-60-5       | 1    | 5VDC @ 6.5A          | 32.5    | 85-264 @ 47-63/124-370          | 1.8A(115V)/1.0A(230V)    | 3.1 x 3.7 x 2.2     | 0.7        | 34.95   | 32.49   | 29.95   |
| 1943449  | MDR-60-5      | 5    | 5VDC @ 10A           | 50      | 85-264 @ 47-63/120-370          | 1.8A(115V)/1.0A(230V)    | 3.9 x 1.6 x 3.5     | 0.7        | 36.95   | 34.95   | 32.95   |
| 1952978  | MDR-10-12     | 2    | 12VDC @ 0.84A        | 10      | 85-264 @ 47-63/120-370          | 0.33A(115V)/0.21A(230V)  | 3.9 x 0.9 x 3.5     | 0.4        | 21.95   | 20.49   | 19.49   |
| 2094952  | DR-15-12      | 1    | 12VDC @ 1.25A        | 15      | 85-264 @ 47-63/120-370          | 0.88A(115V)/0.48A(230V)  | 3.7 x 1.0 x 2.2     | 0.2        | 21.49   | 19.95   | 18.95   |
| 1943334  | MDR-20-12     | 2    | 12VDC @ 1.67A        | 20      | 85-264 @ 47-63/120-370          | 0.55A(115V)/0.35A(230V)  | 3.9 x 0.9 x 3.5     | 0.4        | 25.95   | 24.49   | 22.95   |
| 373182   | DR-30-12      | 1    | 12VDC @ 2A           | 24      | 85-264 @ 47-63/120-370          | 1.1A(115V)/0.6A(230V)    | 3.1 x 3.7 x 2.2     | 0.6        | 24.95   | 22.95   | 21.49   |
| 1943406  | MDR-40-12     | 4    | 12VDC @ 3.33A        | 40      | 85-264 @ 47-63/120-370          | 1.1A(115V)/0.7A(230V)    | 3.9 x 1.6 x 3.5     | 0.6        | 32.95   | 31.49   | 29.95   |
| 192699   | DR-4512       | 3    | 12VDC @ 3.5A         | 42      | 85-264 @ 47-63/120-370          | 1.5A(115V)/0.75A(230V)   | 3.0 x 2.6 x 3.6     | 0.7        | 27.95   | 25.95   | 23.95   |
| 373230   | DR-60-12      | 1    | 12VDC @ 4.5A         | 54      | 85-264 @ 47-63/124-370          | 1.8A(115V)/1.0A(230V)    | 3.1 x 3.7 x 2.2     | 0.7        | 34.95   | 32.49   | 29.95   |
| 1943457  | MDR-60-12     | 5    | 12VDC @ 5A           | 60      | 85-264 @ 47-63/120-370          | 1.8A(115V)/1.0A(230V)    | 3.9 x 1.6 x 3.5     | 0.7        | 36.95   | 34.95   | 32.95   |
| 212291   | DR-75-12      | 6    | 12VDC @ 6.3A         | 75      | 85-264 @ 47-63/120-370          | 2.0A(115V)/1.2A(230V)    | 3.9 x 2.1 x 4.9     | 1.2        | 44.95   | 42.49   | 39.95   |
| 1943511  | DR-100-12     | 1    | 12VDC @ 7.5A         | 90      | 85-264 @ 47-63/124-370          | 3.0A(115V)/1.6A(230V)    | 3.9 x 3.7 x 2.2     | 0.8        | 49.95   | 46.95   | 44.95   |
| 1943481  | MDR-100-12    | 5    | 12VDC @ 7.5A         | 90      | 85-264 @ 47-63/120-370          | 1.3A(155V)/0.8A(230V)    | 3.9 x 2.2 x 3.5     | 0.9        | 64.95   | 61.95   | 58.95   |
| 212274   | DR-120-12     | 7    | 12VDC @ 10A          | 120     | 88-132/176-264* @ 47-63         | 2.8A(115V)/1.7A(230V)    | 2.6 x 3.9 x 4.9     | 1.4        | 54.95   | 51.95   | 48.95   |
| 2099366  | SDR-120-12    | 8    | 12VDC @ 10A          | 120     | 88-264/124-370* @ 47-63         | 1.4A(115V)/1.0A(230V)    | 4.5 x 1.6 x 4.9     | 1.5        | 74.95   | 69.95   | 64.95   |
| 2101391  | DR-15-15      | 9    | 15VDC @ 1A           | 15      | 85-264 @ 47-63                  | 0.88A(115V)/0.48A(230V)  | 3.7 x 1.0 x 2.2     | 0.2        | 21.49   | 19.95   | 18.95   |
| 1943342  | MDR-20-15     | 2    | 15VDC @ 1.24A        | 20      | 85-264 @ 47-63/120-370          | 0.55A(115V)/0.35A(230V)  | 3.9 x 0.9 x 3.5     | 0.4        | 39.95   | 35.95   | 31.95   |
| 373191   | DR-30-15      | 1    | 15VDC @ 2A           | 30      | 85-264 @ 47-63/120-370          | 1.1A(115V)/0.6A(230V)    | 3.1 x 3.7 x 2.2     | 0.6        | 24.95   | 22.95   | 21.49   |
| 373238   | DR-60-15      | 1    | 15VDC @ 4A           | 60      | 85-264 @ 47-63/124-370          | 1.8A(115V)/1.0A(230V)    | 3.1 x 3.7 x 2.2     | 0.7        | 34.95   | 32.49   | 29.95   |
| 1952986  | MDR-10-24     | 2    | 24VDC @ 0.42A        | 10      | 85-264 @ 47-63/120-370          | 0.33A(115V)/0.21A(230V)  | 3.9 x 0.9 x 3.5     | 0.4        | 21.95   | 20.49   | 19.49   |
| 1943385  | MDR-20-24     | 2    | 24VDC @ 1A           | 24      | 85-264 @ 47-63/120-370          | 0.55A(115V)/0.35A(230V)  | 3.9 x 0.9 x 3.5     | 0.4        | 25.95   | 24.49   | 22.95   |
| 373203   | DR-30-24      | 1    | 24VDC @ 1.5A         | 36      | 85-264 @ 47-63/120-370          | 1.1A(115V)/0.6A(230V)    | 3.1 x 3.7 x 2.2     | 0.6        | 24.95   | 22.95   | 21.49   |
| 1943422  | MDR-40-24     | 4    | 24VDC @ 1.7A         | 40.8    | 85-264 @ 47-63/120-370          | 1.1A(115V)/0.7A(230V)    | 3.9 x 1.6 x 3.5     | 0.6        | 32.95   | 31.49   | 29.95   |
| 192681   | DR-4524       | 3    | 24VDC @ 2A           | 48      | 85-264 @ 47-63/120-370          | 1.5A(115V)/0.75A(230V)   | 3.0 x 2.6 x 3.6     | 0.7        | 27.95   | 25.95   | 23.95   |
| 373246   | DR-60-24      | 1    | 24VDC @ 2.5A         | 60      | 85-264 @ 47-63/124-370          | 1.8A(115V)/1.0A(230V)    | 3.1 x 3.7 x 2.2     | 0.7        | 34.95   | 32.49   | 29.95   |
| 1943465  | MDR-60-24     | 5    | 24VDC @ 2.5A         | 60      | 85-264 @ 47-63/120-370          | 1.8A(115V)/1.0A(230V)    | 3.9 x 1.6 x 3.5     | 0.7        | 36.95   | 34.95   | 32.95   |
| 212282   | DR-75-24      | 6    | 24VDC @ 3.2A         | 75      | 85-264 @ 47-63/120-370          | 2.0A(115V)/1.2A(230V)    | 3.9 x 2.1 x 4.9     | 1.2        | 44.95   | 42.49   | 39.95   |
| 1943490  | MDR-100-24    | 5    | 24VDC @ 4A           | 90      | 85-264 @ 47-63/120-370          | 1.3A(155V)/0.8A(230V)    | 3.9 x 2.2 x 3.5     | 0.9        | 64.95   | 61.95   | 58.95   |
| 1943537  | DR-100-24     | 1    | 24VDC @ 4.2A         | 100     | 88-264 @ 47-63/124-370          | 3.0A(115V)/1.6A(230V)    | 2.2 x 3.9 x 3.7     | 0.8        | 49.95   | 46.95   | 44.95   |
| 212266   | DR-120-24     | 7    | 24VDC @ 5A           | 120     | 88-132/176-264* @ 47-63         | 2.8A(115V)/1.7A(230V)    | 2.6 x 3.9 x 4.9     | 1.4        | 54.95   | 51.95   | 48.95   |
| 1953727  | DRH-120-24    | 7    | 24VDC @ 5A           | 120     | 340-550 @ 47-63/480-780         | 0.65A(400V)/0.6A(500V)   | 3.9 x 2.6 x 4.9     | 1.7        | 74.95   | 69.95   | 64.95   |
| 2099374  | SDR-120-24    | 8    | 24VDC @ 5A           | 120     | 88-264/124-370* @ 47-63         | 1.4A(115V)/1.0A(230V)    | 4.5 x 1.6 x 4.9     | 1.5        | 74.95   | 69.95   | 64.95   |
| 221892   | DRP-240-24    | 10   | 24VDC @ 10A          | 240     | 85-264 @ 47-63/120-370          | 3.5A(115V)/1.8A(230V)    | 3.9 x 4.9 x 4.9     | 2.4        | 89.95   | 84.95   | 79.95   |
| 373123   | DRT-240-24    | 10   | 24VDC @ 10A          | 240     | 3-phase 340-550 @ 47-63/480-780 | 0.95A(400V)/0.75A(500V)  | 3.9 x 4.9 x 4.9     | 2.9        | 94.95   | 89.95   | 84.95   |
| 2081086  | SDR-240-24    | 8    | 24VDC @ 10A          | 240     | 88-264 @ 47-63/124-370          | 2.6A(115V)/1.3A(230V)    | 2.5 x 4.9 x 4.5     | 2.5        | 134.95  | 124.95  | 114.95  |
| 252663   | DRP-480-24    | 11   | 24VDC @ 20A          | 480     | 180-264 @ 47-63/25-370          | 4.0A(230V)               | 8.9 x 3.9 x 4.9     | 4.6        | 139.95  | 129.95  | 119.95  |
| 295938   | DRP-480S-24   | 11   | 24VDC @ 20A          | 480     | 90-132/180-264* @ 47-63/254-370 | 11.0A(115V)/4.0A(230V)   | 8.9 x 3.9 x 4.9     | 4.6        | 144.95  | 134.95  | 124.95  |
| 2094944  | SDR-480-24    | 12   | 24VDC @ 20A          | 480     | 88-264 @ 47-63/124-370          | 2.6A(115V)/1.3A(230V)    | 4.9 x 3.4 x 5.0     | 4.9        | 209.95  | 194.95  | 184.95  |
| 1943431  | MDR-40-48     | 4    | 48VDC @ 0.83A        | 39.8    | 85-264 @ 47-63/120-370          | 1.1A(115V)/0.7A(230V)    | 3.9 x 1.6 x 3.5     | 0.6        | 32.95   | 31.49   | 29.95   |
| 1943473  | MDR-60-48     | 5    | 48VDC @ 1.25A        | 60      | 85-264 @ 47-63/120-370          | 1.8A(115V)/1.0A(230V)    | 3.9 x 1.6 x 3.5     | 0.7        | 36.95   | 34.95   | 32.95   |
| 221904   | DR-120-48     | 7    | 48VDC @ 2.5A         | 120     | 88-132/176-264* @ 47-63         | 2.8A(115V)/1.7A(230V)    | 2.6 x 3.9 x 4.9     | 1.4        | 54.95   | 51.95   | 48.95   |
| 1953735  | DRH-120-48    | 7    | 48VDC @ 2.5A         | 120     | 340-550 @ 47-63/480-780         | 0.65A(400V)/0.6A(500V)   | 3.9 x 2.6 x 4.9     | 1.7        | 69.95   | 64.95   | 59.95   |
| 221883   | DRP-240-48    | 10   | 48VDC @ 5A           | 240     | 85-264 @ 47-63/120-370          | 3.5A(115V)/1.8A(230V)    | 3.9 x 4.9 x 4.9     | 2.4        | 89.95   | 84.95   | 79.95   |
| 2094936  | SDR-240-48    | 8    | 48VDC @ 5A           | 240     | 88-264 @ 47-63/120-370          | 2.6A(115V)/1.3A(350V)    | 2.5 x 4.9 x 4.5     | 2.5        | 134.95  | 124.95  | 114.95  |
| 252655   | DRP-480-48    | 11   | 48VDC @ 10A          | 480     | 180-264 @ 47-63/25-370          | 4.0A(230V)               | 8.9 x 3.9 x 4.9     | 4.6        | 139.95  | 129.95  | 119.95  |
| 301306   | DRP-480S-48   | 11   | 48VDC @ 10A          | 480     | 90-132/180-264* @ 47-63/254-370 | 11.0A(115V)/4.0A(230V)   | 8.9 x 3.9 x 4.9     | 4.6        | 144.95  | 134.95  | 124.95  |
| 373106   | DRT-480-48    | 11   | 48VDC @ 10A          | 480     | 3-phase 340-550 @ 47-63/480-750 | 1.7A(400V)/1.3A(500V)    | 8.9 x 3.9 x 4.9     | 5.5        | 79.95   | 74.95   | 69.95   |

\* Switch selectable † With Power Factor Correction



## DIN Mounting Rail



| Part No. | Mfr. Part No. | Description                  | Material                    | Type       | Length        | 1      | 10     | 100    |
|----------|---------------|------------------------------|-----------------------------|------------|---------------|--------|--------|--------|
| 248736   | 2094.0        | Prepunched DIN mounting rail | Zinc bichromate plate steel | TS35 x 7.5 | 1 meter (39") | \$6.95 | \$6.29 | \$5.49 |

★ For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above



Order by Phone 24/7 at 1-800-831-4242 or Online at [www.Jameco.com](http://www.Jameco.com)

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## Encapsulated Switching Power Supplies

★ Web Code: ESP

### PM-05/PM-10/PM-15/PM-20 Series:

- Universal AC input (85-264VAC @ 47Hz)
- Short-circuit, overload, overvoltage protection
- Ultra-miniature size
- UL/CUL/TUV/CE/CB
- Cooling by free air convection
- 100% full-load burn-in test
- Three-year warranty



| Part No. | Manufacturer | Mfr. P/N | Output                  |         | Pins | Ripple & Noise (mVp-p) | Load Reg. (±%) | Line Reg. (±%) | Size (L" x W" x H") | Pricing |         |         |
|----------|--------------|----------|-------------------------|---------|------|------------------------|----------------|----------------|---------------------|---------|---------|---------|
|          |              |          | Volt. @ Curr. (min-max) | Pwr (W) |      |                        |                |                |                     | 1       | 10      | 50      |
| 1954527  | Mean Well    | PM-05-12 | +12V @ 0.0-0.42A        | 5.04    | 4    | 150                    | 1.0            | 0.5            | 2.5 x 2.0 x 0.8     | \$15.49 | \$14.49 | \$13.49 |
| 1954551  | Mean Well    | PM-10-12 | +12V @ 0.0-0.85A        | 10.2    | 4    | 150                    | 1.0            | 0.5            | 2.8 x 2.0 x 0.9     | 17.49   | 16.49   | 15.49   |
| 1954586  | Mean Well    | PM-15-12 | +12V @ 0.1-1.25A        | 15      | 4    | 150                    | 1.0            | 0.5            | 3.0 x 2.1 x 0.9     | 20.95   | 19.95   | 18.95   |
| 1954367  | Mean Well    | PM-20-12 | +12V @ 0.1-1.80A        | 21.6    | 6    | 150                    | 1.0            | 0.5            | 3.7 x 2.2 x 0.9     | 22.95   | 21.49   | 19.95   |
| 1954535  | Mean Well    | PM-05-24 | +24V @ 0.0-0.23A        | 5.52    | 4    | 240                    | 0.5            | 0.5            | 2.5 x 2.0 x 0.8     | 15.49   | 14.49   | 13.49   |
| 1954560  | Mean Well    | PM-10-24 | +24V @ 0.0-0.42A        | 10.1    | 4    | 240                    | 0.5            | 0.5            | 2.8 x 2.0 x 0.9     | 17.49   | 16.49   | 15.49   |
| 1954594  | Mean Well    | PM-15-24 | +24V @ 0.0-0.63A        | 15.1    | 4    | 240                    | 0.5            | 0.5            | 3.0 x 2.1 x 0.9     | 20.95   | 19.95   | 18.95   |
| 1954383  | Mean Well    | PM-20-24 | +24V @ 0.0-0.92A        | 22.1    | 6    | 240                    | 0.5            | 0.5            | 3.7 x 2.2 x 0.9     | 22.95   | 21.49   | 19.95   |

## 600-Watt Rackmount Power Supply

★ Web Code: MCJ

- AC Input active surge current limiting
- Forced air cooling by built-in DC fan
- Built-in remote sense function
- Short-circuit, overload, overvoltage, overtemperature protection
- Input voltage: 90-132VAC/180-264VAC switch selectable
- Output: 48VDC @ 12.5A • Ripple & noise: 150mVp-p max.

| Part No. | Mfr. Part No. | Size (W" x D" x H") | 1        | 5        | 25       |
|----------|---------------|---------------------|----------|----------|----------|
| 673408   | SE-600-48RM   | 19.5 x 5.0 x 3.5    | \$249.95 | \$229.95 | \$214.95 |

## Dual Adj. Regulated Power Supply Kit

- Adjustable positive/negative supplies ±5 to ±15VDC, 175mA-750mA per supply
- LED on indicator • 120VAC input • 48-piece kit
- PC board construction • Difficulty level: intermediate



| Part No. | Cross Ref. No. | Size (L" x W" x H") | Wt. (lbs.) | 1       | 10      |
|----------|----------------|---------------------|------------|---------|---------|
| 20626    | JE215          | 5.1 x 3.5 x 2.0     | 2.1        | \$24.95 | \$22.49 |

We also carry AT & ATX Computer Power Supplies See page 180

## 15 to 500-Watt Enclosed Converters

Performance at Value Prices

- 2:1 wide input range • 100% burn-in test • Working temp.: -10°C to +60°C • Protection: short-circuit, overload and overvoltage
- SD-15 Series • Built-in EMI filter, low ripple noise • One-year warranty

- SD-25/SD-50/SD-100/SD-150 Series • Isolation voltage: 1500VDC • Built-in EMI filter, low ripple noise • One-year warranty
- SD-200/350 Series • Isolation volt.: 1500VDC • Cooling by free air convection • Fixed switching freq @ 83kHz • SD-200: One-year warranty; SD-350: Two-year warranty
- SD-500 Series • Isolation voltage: 2000VAC • DC input active surge current limiting

- Wide 4:1 ~ 2:1 SC input range • Forced air cooling by built-in DC fan w/ fan speed control function • Three-year warranty

★ Web Code: UBC

| Part No. | Mfr. Part No. | Input Range | Output            |           | Size (L" x W" x H") | Pins | Line Reg. (±%) | Load Reg. (±%) | Ripple & Noise (mV p-p) | Pricing |         |         |         |
|----------|---------------|-------------|-------------------|-----------|---------------------|------|----------------|----------------|-------------------------|---------|---------|---------|---------|
|          |               |             | Voltage @ Current | Power (W) |                     |      |                |                |                         | 1       | 5       | 25      | 100     |
| 1953778  | SD-15A-5R     | 9.2-18V     | +5V @ 3.0A        | 15        | 3.1 x 2.0 x 1.1     | 5    | 0.5            | 0.5            | 100                     | \$19.95 | \$18.49 | \$16.95 | \$15.95 |
| 175662   | SD-25A-5R     | 9-18V       | +5V @ 5.0A        | 25        | 3.9 x 3.8 x 1.4     | 5    | 0.5            | 0.5            | 100                     | 24.95   | 22.95   | 21.49   | 19.95   |
| 212549   | SD-50A-5R     | 9-18V       | +5V @ 10A         | 50        | 6.3 x 3.8 x 1.5     | 5    | 0.5            | 0.5            | 100                     | 32.49   | 29.95   | 27.95   | 26.49   |
| 1953882  | SD-200B-5R    | 19-36V      | +5V @ 34A         | 170       | 8.5 x 4.5 x 2.0     | 9    | 0.5            | 1.0            | 100                     | 99.95   | 94.95   | 89.95   | 84.95   |
| 1953891  | SD-350B-5R    | 19-36V      | +5V @ 57A         | 285       | 8.5 x 4.5 x 2.0     | 9    | 0.5            | 1.0            | 100                     | 109.95  | 104.95  | 99.95   | 94.95   |
| 1953823  | SD-15B-12R    | 18-36V      | +12V @ 1.25A      | 15        | 3.1 x 2.0 x 1.1     | 5    | 0.3            | 0.3            | 120                     | 19.95   | 18.49   | 16.95   | 15.95   |
| 1953840  | SD-15C-12R    | 36-72V      | +12V @ 1.25A      | 15        | 3.1 x 2.0 x 1.1     | 5    | 0.3            | 0.3            | 120                     | 19.95   | 18.49   | 16.95   | 15.95   |
| 175805   | SD-25A-12R    | 9-18V       | +12V @ 2.1A       | 25.2      | 3.9 x 3.8 x 1.4     | 5    | 0.3            | 0.3            | 120                     | 25.95   | 23.95   | 21.95   | 20.49   |
| 1537483  | SD-50A-12R    | 9.2-18V     | +12V @ 4.2A       | 50.1      | 6.3 x 3.8 x 1.5     | 5    | 0.3            | 0.3            | 120                     | 32.49   | 29.95   | 27.95   | 26.49   |
| 212531   | SD-50B-12R    | 19-36V      | +12V @ 4.2A       | 50.4      | 6.3 x 3.8 x 1.5     | 5    | 0.3            | 0.3            | 120                     | 32.49   | 29.95   | 27.95   | 26.49   |
| 212506   | SD-50C-12R    | 36-72V      | +12V @ 4.2A       | 50.4      | 6.3 x 3.8 x 1.5     | 5    | 0.3            | 0.3            | 120                     | 32.49   | 29.95   | 27.95   | 26.49   |
| 212469   | SD-100C-12R   | 36-72V      | +12V @ 8.5A       | 102       | 7.8 x 3.9 x 1.5     | 7    | 0.3            | 0.3            | 120                     | 41.95   | 38.95   | 36.95   | 34.95   |
| 217270   | SD-150B-12R   | 19-36V      | +12V @ 12.5A      | 150       | 7.8 x 4.3 x 2.0     | 7    | 0.5            | 0.5            | 120                     | 54.95   | 51.95   | 48.95   | 46.95   |
| 1953903  | SD-200B-12R   | 19-36V      | +12V @ 16.7A      | 200.4     | 8.5 x 4.5 x 2.0     | 9    | 0.5            | 1.0            | 100                     | 99.95   | 94.95   | 89.95   | 84.95   |
| 1953920  | SD-200C-12R   | 36-72V      | +12V @ 16.7A      | 200.4     | 8.5 x 4.5 x 2.0     | 9    | 0.5            | 1.0            | 120                     | 109.95  | 99.95   | 94.95   | 89.95   |
| 1953760  | SD-200D-12R   | 72-144V     | +12V @ 16.7A      | 200.4     | 8.5 x 4.5 x 2.0     | 9    | 0.5            | 1.0            | 120                     | 109.95  | 99.95   | 94.95   | 89.95   |
| 1953962  | SD-350B-12R   | 19-36V      | +12V @ 27.5A      | 330       | 8.5 x 4.5 x 2.0     | 9    | 0.3            | 1.0            | 120                     | 109.95  | 104.95  | 99.95   | 94.95   |
| 1953997  | SD-350C-12R   | 36-72V      | +12V @ 27.5A      | 330       | 8.5 x 4.5 x 2.0     | 9    | 0.3            | 1.0            | 120                     | 109.95  | 104.95  | 99.95   | 94.95   |
| 1954033  | SD-500L-12R   | 19-72V      | +12V @ 40A        | 480       | 8.5 x 4.5 x 2.0     | 7    | 0.5            | 0.5            | 150                     | 174.95  | 164.95  | 154.95  | 144.95  |
| 1954050  | SD-500H-12R   | 72-144V     | +12V @ 40A        | 480       | 8.5 x 4.5 x 2.0     | 7    | 0.5            | 0.5            | 150                     | 174.95  | 164.95  | 154.95  | 144.95  |
| 175813   | SD-25A-24R    | 9-18V       | +24V @ 1.1A       | 26.4      | 3.9 x 3.8 x 1.4     | 5    | 0.2            | 0.2            | 150                     | 25.95   | 23.95   | 21.95   | 20.49   |
| 2107186  | SD-25C-24R    | 36-72V      | +24V @ 1.1A       | 26.4      | 3.9 x 3.8 x 1.4     | 5    | 0.2            | 0.2            | 150                     | 25.95   | 23.95   | 21.95   | 20.49   |
| 2107266  | SD-50A-24R    | 9.2-18V     | +24V @ 2.1A       | 50.4      | 6.3 x 3.8 x 1.5     | 5    | 0.2            | 0.2            | 150                     | 32.49   | 29.95   | 27.95   | 26.49   |
| 212514   | SD-50B-24R    | 19-36V      | +24V @ 2.1A       | 50.4      | 6.3 x 3.8 x 1.5     | 5    | 0.2            | 0.2            | 150                     | 32.49   | 29.95   | 27.95   | 26.49   |
| 1953954  | SD-200B-24R   | 19-36V      | +24V @ 8.4A       | 201.6     | 8.5 x 4.5 x 2.0     | 9    | 0.5            | 1.0            | 150                     | 99.95   | 94.95   | 89.95   | 84.95   |
| 1953743  | SD-200C-24R   | 36-72V      | +24V @ 8.4A       | 201.6     | 8.5 x 4.5 x 2.0     | 9    | 0.5            | 1.0            | 150                     | 109.95  | 99.95   | 94.95   | 89.95   |
| 1953971  | SD-350B-24R   | 19-36V      | +24V @ 14.6A      | 350.4     | 8.5 x 4.5 x 2.0     | 9    | 0.2            | 1.0            | 150                     | 109.95  | 104.95  | 99.95   | 94.95   |
| 1954009  | SD-350C-24R   | 36-72V      | +24V @ 14.6A      | 350.4     | 8.5 x 4.5 x 2.0     | 9    | 0.2            | 1.0            | 150                     | 109.95  | 104.95  | 99.95   | 94.95   |
| 1954025  | SD-500L-24R   | 19-72V      | +24V @ 21A        | 504       | 8.5 x 4.5 x 2.0     | 7    | 0.5            | 0.5            | 150                     | 174.95  | 164.95  | 154.95  | 144.95  |
| 1953911  | SD-200B-48R   | 19-36V      | +48V @ 4.2A       | 201.6     | 8.5 x 4.5 x 2.0     | 9    | 0.5            | 1.0            | 150                     | 99.95   | 94.95   | 89.95   | 84.95   |
| 1953946  | SD-200D-48R   | 72-144V     | +48V @ 4.2A       | 201.6     | 8.5 x 4.5 x 2.0     | 9    | 0.5            | 1.0            | 120                     | 99.95   | 94.95   | 89.95   | 84.95   |
| 1954017  | SD-350C-48R   | 36-72V      | +48V @ 7.3A       | 350.4     | 8.5 x 4.5 x 2.0     | 9    | 0.2            | 1.0            | 150                     | 109.95  | 104.95  | 99.95   | 94.95   |
| 1953989  | SD-350B-48R   | 19-36V      | +48V @ 7.3A       | 350.4     | 8.5 x 4.5 x 2.0     | 9    | 0.3            | 1.0            | 120                     | 109.95  | 104.95  | 99.95   | 94.95   |

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 197.



## Pure-Sine-Wave DC/AC Inverters

- Output waveform: sine wave
  - Thermostatically controlled cooling fan
  - Low battery alarm, low battery shutdown, overtemperature, overload, short-circuit, reverse polarity protection
  - Output wave form THD: < 3%
  - Output connector: 3-prong AC receptacle
  - Two-year warranty
- SAMLEX:** • Operating temperature: 0 ~ 40°C • Output voltage: 120VAC (±3%) @ 60Hz
- Mean Well:** • Working temperature: 0 ~ 60°C • Output voltage: 110VAC @ 60Hz



PST-30S



TS-1000

**\*Additional Sine-Wave Inverters available Online — Enter Web Code XEL**

| Part No. | Manufacturer | Mfr. Part No. | Output Power (W) | Efficiency (%) | Input Voltage Range (VDC) | Input Connector     | Size (L" x W" x H") | Wt. (lbs.) | Pricing  |          |
|----------|--------------|---------------|------------------|----------------|---------------------------|---------------------|---------------------|------------|----------|----------|
|          |              |               |                  |                |                           |                     |                     |            | 1        | 5        |
| 672624   | Samlex       | PST-30S-12A   | 300              | 85             | 10.5 – 16.5               | Screwdown terminals | 8.4 x 5.8 x 2.6     | 3.3        | \$149.95 | \$134.95 |
| 1952425  | Mean Well    | TS-1000-112AF | 1000             | 88             | 10.5 – 15.0               | Screwdown terminals | 15.5 x 7.2 x 2.8    | 9.5        | 399.95   | 369.95   |
| 1943545  | Mean Well    | TS-1500-112A  | 1500             | 87             | 10.5 – 15.0               | Screwdown terminals | 16.5 x 8.7 x 3.5    | 7.5        | 599.95   | 549.95   |

\* P/Ns 673467/1952425: with built-in GFCI



## Unregulated Encapsulated Converters

- Input range: 4.5-5.5V
- Ripple & noise: 100mV p-p
- Input filter: capacitor type
- Line & load regulation: ±1.0%
- No external components needed
- Working temp.: -15°C to +60°C
- 1000VDC isolation
- 100% burn-in test
- Protection: short-circuit
- One-year warranty

**\*Web Code: SBH**



216831

| Part No. | Mfr. Part No. | Output Voltage@Current | Power | Size (L"xW"xH") | Pins | Pricing |        |        |
|----------|---------------|------------------------|-------|-----------------|------|---------|--------|--------|
|          |               |                        |       |                 |      | 1       | 10     | 50     |
| 213226   | SRS-0505      | +5V @ 100mA            | 0.5W  | .88 x .39 x .33 | 8    | \$9.95  | \$8.95 | \$7.95 |
| 216831   | SPR01L-12     | +12V @ 84mA            | 1W    | .77 x .28 x .40 | 4    | 9.95    | 8.95   | 7.95   |



## Encapsulated DC-to-DC Converters

### SCW03, SLW05, SCW05, SCW08, SKE10, SKA15 & SKE15 Series

- 1000VDC I/O isolation
- Short-circuit/overload protection
- Cooling by free air convection
- Shield metal case
- 2:1 wide input range
- One-year warranty

**\*Web Code: NAX**

### FEC15 Series

- 2:1 & 4:1 wide input voltage range (depending on model)
- Short-circuit/overload protection
- Fixed switching frequency
- 1600VDC isolation
- Standard DIP package (24-pin)
- Two-year warranty

### SBT01 Series

- 1000VDC I/O isolation
- Short-circuit/overload protection
- Cooling by free air convection
- Internal SMD technology

### SCW12 & DCW12 Series

- 2:1 wide input voltage range • 1500VDC I/O isolation
- Short-circuit/overload protection
- Built-in EMI filter
- Built-in remote on/off control
- Five sided shielded metal case
- Two-year warranty

### DCW03, DCW05, DCW08, DKE10, DKA15 & DKE15 Series

- 1000VDC I/O isolation
- Short-circuit/overload protection
- Cooling by free air convection
- Shield metal case
- 2:1 wide input range
- One-year warranty

### DKA30, TKA30 & TKB20 Series

- 1000VDC I/O isolation
- 2:1 wide input range
- Cooling by free air convection
- Remote on/off control
- Short-circuit/overload protection
- Six sided shielded metal case
- One-year warranty



SLW05



FEC15



SBT01



DKA15



DCW12



TKA30

| Part No.      | Manufacturer | Mfr. Part No. | Input Range | Output            |         | Size (L" x W" x H") | Pins | Line Reg. (±%) | Load Reg. (±%) | Ripple & Noise (mV p-p) | Pricing |         |         |         |  |
|---------------|--------------|---------------|-------------|-------------------|---------|---------------------|------|----------------|----------------|-------------------------|---------|---------|---------|---------|--|
|               |              |               |             | Voltage @ Current | Pwr (W) |                     |      |                |                |                         | 1       | 5       | 25      | 100     |  |
| Single Output |              |               |             |                   |         |                     |      |                |                |                         |         |         |         |         |  |
| 220354        | Mean Well    | SLW05A-033    | 9-18V       | +3.3V @ 1.5A      | 5       | 2.0x1.0x0.44        | 5    | 0.2            | 0.5            | 100                     | \$19.95 | \$17.95 | \$15.95 | \$14.49 |  |
| 220337        | Mean Well    | SKE10B-033    | 18-36V      | +3.3V @ 2.4A      | 8       | 2.0x1.0x0.44        | 5    | 0.3            | 0.5            | 50                      | 19.95   | 16.95   | 15.95   | 14.95   |  |
| 220345        | Mean Well    | SKE10C-033    | 36-72V      | +3.3V @ 2.4A      | 8       | 2.0x1.0x0.44        | 5    | 0.3            | 0.5            | 50                      | 14.95   | 13.95   | 12.95   | 11.95   |  |
| 1944071       | Power Mate   | FEC15-24S3P3  | 18-36V      | +3.3V @ 4A        | 15      | 2.0x1.0x0.4         | 6    | 0.5            | 0.5            | 50                      | 32.95   | 29.95   | 26.95   | 24.95   |  |
| 2106790       | Mean Well    | SBT01M-05     | 10.8-13.2V  | +5V @ 0.2A        | 1       | 0.5x0.3x0.2         | 8    | 8.0            | 1.2            | 100                     | 4.95    | 4.49    | 3.95    | 3.69    |  |
| 213269        | Mean Well    | SCW03A-05     | 9-18V       | +5V @ 0.6A        | 3       | 1.25x0.8x0.48       | 10   | 1.0            | 0.5            | 100                     | 16.95   | 14.95   | 12.95   | 11.49   |  |
| 1953292       | Mean Well    | SCW05A-05     | 9-18V       | +5V @ 1A          | 5       | 1.25x0.8x0.48       | 8    | 0.5            | 0.5            | 50                      | 17.95   | 15.95   | 13.95   | 12.49   |  |
| 216929        | Mean Well    | SLW05A-05     | 9-18V       | +5V @ 1A          | 5       | 2.0x1.0x0.44        | 5    | 1.0            | 0.2            | 100                     | 22.95   | 19.95   | 17.95   | 15.95   |  |
| 216937        | Mean Well    | SLW05B-05     | 18-36V      | +5V @ 1A          | 5       | 2.0x1.0x0.44        | 5    | 1.0            | 0.2            | 100                     | 22.95   | 19.95   | 17.95   | 15.95   |  |
| 1953313       | Mean Well    | SCW05B-05     | 18-36V      | +5V @ 1A          | 5       | 1.25x0.8x0.48       | 8    | 0.5            | 0.5            | 50                      | 17.95   | 15.95   | 13.95   | 12.49   |  |
| 213234        | Mean Well    | SLW05C-05     | 36-72V      | +5V @ 1A          | 5       | 2.0x1.0x0.44        | 5    | 1.0            | 0.2            | 100                     | 22.95   | 19.95   | 17.95   | 15.95   |  |
| 216962        | Mean Well    | SKE10A-05     | 9-18V       | +5V @ 2A          | 10      | 2.0x1.0x0.44        | 5    | 0.3            | 1.0            | 50                      | 28.95   | 25.95   | 22.95   | 19.95   |  |
| 216953        | Mean Well    | SKE10B-05     | 18-36V      | +5V @ 2A          | 10      | 2.0x1.0x0.44        | 5    | 0.3            | 0.5            | 50                      | 28.95   | 25.95   | 22.95   | 19.95   |  |

Encapsulated Converters continued on next page

**\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above**

# Encapsulated & Open-Frame DC-to-DC Converters

| 3 LEVELS OF SAVINGS |              |                 |
|---------------------|--------------|-----------------|
| NAME BRANDS         | HOUSE BRANDS | FACTORY OVERRUN |

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## Encapsulated DC-to-DC Converters (Continued)

Photos on previous page

★ Web Code: NAX

|                           |              |               |             | Output                    |         | Size           |      | Line Reg. | Load Reg. | Ripple & Noise | Pricing |         |         |         |
|---------------------------|--------------|---------------|-------------|---------------------------|---------|----------------|------|-----------|-----------|----------------|---------|---------|---------|---------|
| Part No.                  | Manufacturer | Mfr. Part No. | Input Range | Voltage @ Current         | Pwr (W) | (L" x W" x H") | Pins | (±%)      | (±%)      | (mV p-p)       | 1       | 5       | 25      | 100     |
| Single Output (Continued) |              |               |             |                           |         |                |      |           |           |                |         |         |         |         |
| 216945                    | Mean Well    | SKE10C-05     | 36-72V      | +5V @ 2A                  | 10      | 2.0x1.0x0.44   | 5    | 0.3       | 1.0       | 50             | \$28.95 | \$25.95 | \$22.95 | \$19.95 |
| 1953428                   | Mean Well    | SCW12A-05     | 9-18V       | +5V @ 2.4A                | 12      | 1.25x0.8x0.48  | 9    | 0.5       | 0.5       | 50             | 22.95   | 21.95   | 20.95   | 19.95   |
| 1953461                   | Mean Well    | SCW12C-05     | 36-72V      | +5V @ 2.4A                | 12      | 1.25x0.8x0.48  | 9    | 0.5       | 0.5       | 50             | 22.95   | 21.95   | 20.95   | 19.95   |
| 155716                    | Mean Well    | SKE15A-05     | 9-18V       | +5V @ 3A                  | 15      | 2.0x2.0x0.43   | 5    | 0.3       | 0.5       | 50             | 28.95   | 25.95   | 22.95   | 19.95   |
| 1954172                   | Mean Well    | SKA15B-05     | 18-36V      | +5V @ 3A                  | 15      | 2.0x1.0x0.44   | 5    | 0.2       | 0.5       | 50             | 23.95   | 22.49   | 20.95   | 19.95   |
| 213277                    | Mean Well    | SKE15B-05     | 18-36V      | +5V @ 3A                  | 15      | 2.0x2.0x0.43   | 5    | 0.3       | 0.5       | 50             | 28.95   | 25.95   | 22.95   | 19.95   |
| 216911                    | Mean Well    | SLW05B-12     | 18-36V      | +12V @ 0.417A             | 5       | 2.0x1.0x0.44   | 5    | 1.0       | 0.2       | 100            | 15.49   | 14.49   | 13.49   | 12.49   |
| 1953495                   | Mean Well    | SCW08A-12     | 9-18V       | +12V @ 0.67A              | 8       | 1.25x0.8x0.48  | 8    | 0.5       | 0.5       | 60             | 17.95   | 16.95   | 15.95   | 14.95   |
| 1953516                   | Mean Well    | SCW08B-12     | 18-36V      | +12V @ 0.67A              | 8       | 1.25x0.8x0.48  | 8    | 0.5       | 0.5       | 60             | 17.95   | 16.95   | 15.95   | 14.95   |
| 217024                    | Mean Well    | SKE10B-12     | 18-36V      | +12V @ 0.84A              | 10      | 2.0x1.0x0.44   | 5    | 0.3       | 0.5       | 60             | 28.95   | 25.95   | 22.95   | 19.95   |
| 1953452                   | Mean Well    | SCW12B-12     | 18-36V      | +12V @ 1A                 | 12      | 1.25x0.8x0.48  | 9    | 0.5       | 0.5       | 60             | 22.95   | 21.95   | 20.95   | 19.95   |
| 1953479                   | Mean Well    | SCW12C-12     | 36-72V      | +12V @ 1A                 | 12      | 1.25x0.8x0.48  | 9    | 0.5       | 0.5       | 60             | 22.95   | 21.95   | 20.95   | 19.95   |
| 1953161                   | Mean Well    | SKA15A-12     | 9-18V       | +12V @ 1.25A              | 15      | 2.0x1.0x0.44   | 5    | 0.2       | 0.5       | 60             | 29.95   | 26.95   | 23.95   | 21.95   |
| 155708                    | Mean Well    | SKE15A-12     | 9-18V       | +12V @ 1.25A              | 15      | 2.0x2.0x0.43   | 5    | 0.3       | 0.5       | 60             | 28.95   | 25.95   | 22.95   | 19.95   |
| 213285                    | Mean Well    | SKE15B-12     | 18-36V      | +12V @ 1.25A              | 15      | 2.0x2.0x0.43   | 5    | 0.3       | 0.5       | 60             | 28.95   | 25.95   | 22.95   | 19.95   |
| 1953170                   | Mean Well    | SKA15B-12     | 18-36V      | +12V @ 1.25A              | 15      | 2.0x1.0x0.44   | 5    | 0.2       | 0.5       | 60             | 23.95   | 22.49   | 20.95   | 19.95   |
| 1953196                   | Mean Well    | SKA15C-12     | 36-72V      | +12V @ 1.25A              | 15      | 2.0x1.0x0.44   | 5    | 0.2       | 0.5       | 60             | 23.95   | 22.49   | 20.95   | 19.95   |
| 216882                    | Mean Well    | SLW05A-15     | 9-18V       | +15V @ 0.333A             | 5       | 2.0x1.0x0.44   | 5    | 1.0       | 0.2       | 100            | 19.95   | 17.95   | 15.95   | 14.49   |
| 216980                    | Mean Well    | SKE10A-15     | 9-18V       | +15V @ 0.666A             | 10      | 2.0x1.0x0.44   | 5    | 0.3       | 1.0       | 60             | 26.95   | 23.95   | 21.95   | 19.95   |
| 155695                    | Mean Well    | SKE15A-24     | 9-18V       | +24V @ 0.625A             | 15      | 2.0x2.0x0.43   | 5    | 0.3       | 0.5       | 80             | 28.95   | 25.95   | 22.95   | 19.95   |
| Dual Output               |              |               |             |                           |         |                |      |           |           |                |         |         |         |         |
| 155919                    | Mean Well    | DCW03A-05     | 9-18V       | ±5V @ 0.3A                | 3       | 1.25x0.8x0.48  | 10   | 1.0       | 0.5       | 100            | \$15.95 | \$13.95 | \$12.49 | \$10.95 |
| 217032                    | Mean Well    | DKE10A-05     | 9-18V       | ±5V @ 1A                  | 10      | 2.0x1.0x0.44   | 5    | 0.3       | 0.5       | 50             | 25.95   | 23.95   | 21.95   | 19.95   |
| 1954421                   | Mean Well    | DCW12A-05     | 9-18V       | ±5V @ 1.2A                | 12      | 1.25x0.8x0.48  | 9    | 0.5       | 0.5       | 50             | 23.95   | 21.95   | 20.95   | 19.95   |
| 1954076                   | Mean Well    | DCW12C-05     | 36-72V      | ±5V @ 1.2A                | 12      | 1.25x0.8x0.48  | 9    | 0.5       | 0.5       | 50             | 23.95   | 21.95   | 20.95   | 19.95   |
| 1953065                   | Mean Well    | DKA15A-05     | 9-18V       | ±5V @ 1.5A                | 15      | 2.0x1.0x0.44   | 5    | 0.2       | 0.5       | 50             | 25.95   | 23.95   | 22.49   | 20.95   |
| 1953081                   | Mean Well    | DKA15B-05     | 18-36V      | +5V @ 3A; -5V @ 1.5A      | 15      | 2.0x1.0x0.44   | 5    | 0.2       | 0.5       | 50             | 25.95   | 23.95   | 22.49   | 20.95   |
| 1954121                   | Mean Well    | DKA30C-05     | 36-72V      | ±5V @ 2.5A                | 25      | 2.0x2.0x0.82   | 8    | 0.5       | 0.5       | 100            | 32.95   | 29.95   | 27.95   | 25.95   |
| 161702                    | Mean Well    | DCW03A-12     | 9-18V       | ±12V @ 0.125A             | 3       | 1.25x0.8x0.48  | 10   | 1.0       | 0.5       | 100            | 15.95   | 13.95   | 12.49   | 10.95   |
| 1953276                   | Mean Well    | DCW05C-12     | 36-72V      | ±12V @ 0.23A              | 5.5     | 1.25x0.8x0.48  | 8    | 0.5       | 0.5       | 60             | 14.95   | 13.95   | 12.95   | 11.95   |
| 1953241                   | Mean Well    | DCW05A-12     | 9-18V       | ±12V @ 0.23A              | 5.5     | 1.25x0.8x0.48  | 8    | 0.5       | 0.5       | 60             | 14.95   | 13.95   | 12.95   | 11.95   |
| 1953356                   | Mean Well    | DCW08A-12     | 9-18V       | ±12V @ 0.335A             | 8       | 1.25x0.8x0.48  | 8    | 0.5       | 0.5       | 60             | 19.95   | 18.49   | 16.95   | 15.95   |
| 1953399                   | Mean Well    | DCW08C-12     | 36-72V      | ±12V @ 0.335A             | 8       | 1.25x0.8x0.48  | 8    | 0.5       | 0.5       | 60             | 19.95   | 18.49   | 16.95   | 15.95   |
| 217092                    | Mean Well    | DKE10A-12     | 9-18V       | ±12V @ 0.42A              | 10      | 2.0x1.0x0.44   | 5    | 0.3       | 0.5       | 60             | 25.95   | 23.95   | 21.95   | 19.95   |
| 1953022                   | Mean Well    | DCW12B-12     | 18-36V      | ±12V @ 0.5A               | 12      | 1.25x0.8x0.48  | 9    | 0.5       | 0.5       | 60             | 23.95   | 21.95   | 20.95   | 19.95   |
| 1953049                   | Mean Well    | DCW12C-12     | 36-72V      | ±12V @ 0.5A               | 12      | 1.25x0.8x0.48  | 9    | 0.5       | 0.5       | 60             | 23.95   | 21.95   | 20.95   | 19.95   |
| 161729                    | Mean Well    | DKE15A-12     | 9-18V       | ±12V @ 0.625A             | 15      | 2.0x2.0x0.43   | 5    | 0.3       | 0.5       | 60             | 26.95   | 24.95   | 22.95   | 20.95   |
| 1953090                   | Mean Well    | DKA15B-12     | 18-36V      | ±12V @ 0.625A             | 15      | 2.0x1.0x0.44   | 5    | 0.2       | 0.5       | 60             | 25.95   | 23.95   | 22.49   | 20.95   |
| 1953102                   | Mean Well    | DKA15C-12     | 36-72V      | ±12V @ 0.625A             | 15      | 2.0x1.0x0.44   | 5    | 0.2       | 0.5       | 60             | 25.95   | 23.95   | 22.49   | 20.95   |
| 1953364                   | Mean Well    | DCW08A-15     | 9-18V       | ±15V @ 0.267A             | 8       | 1.25x0.8x0.48  | 8    | 0.5       | 0.5       | 60             | 18.95   | 17.95   | 16.95   | 15.95   |
| 1953381                   | Mean Well    | DCW08B-15     | 18-36V      | ±15V @ 0.267A             | 8       | 1.25x0.8x0.48  | 8    | 0.5       | 0.5       | 60             | 18.95   | 17.95   | 16.95   | 15.95   |
| 217112                    | Mean Well    | DKE10A-15     | 9-18V       | ±15V @ 0.333A             | 10      | 2.0x1.0x0.44   | 5    | 0.3       | 0.5       | 60             | 25.95   | 23.95   | 21.95   | 19.95   |
| 217075                    | Mean Well    | DKE10B-15     | 18-36V      | ±15V @ 0.333A             | 10      | 2.0x1.0x0.44   | 5    | 0.3       | 0.5       | 60             | 25.95   | 23.95   | 21.95   | 19.95   |
| 1953111                   | Mean Well    | DKA15C-15     | 36-72V      | ±15V @ 0.5A               | 15      | 2.0x1.0x0.44   | 5    | 0.2       | 0.5       | 60             | 25.95   | 23.95   | 22.49   | 20.95   |
| 1954130                   | Mean Well    | DKA30A-15     | 9-18V       | ±15V @ 1A                 | 30      | 2.0x2.0x0.82   | 8    | 0.5       | 0.5       | 100            | 32.95   | 29.95   | 27.95   | 25.95   |
| 213293                    | Mean Well    | DKE15A-24     | 9-18V       | ±24V @ 0.313A             | 15      | 2.0x2.0x0.43   | 5    | 0.3       | 0.5       | 80             | 29.95   | 26.95   | 24.49   | 21.95   |
| Triple Output             |              |               |             |                           |         |                |      |           |           |                |         |         |         |         |
| 217648                    | Mean Well    | TKB20C-B      | 36-72V      | +5V @ 2.5A; ±12V @ 0.31A  | 20      | 1.2x2.0x0.82   | 8    | 0.2       | 0.2       | 100            | \$24.95 | \$22.95 | \$20.95 | \$18.95 |
| 1953217                   | Mean Well    | TKA30B-B      | 18-36V      | +5V @ 0.31A; ±12V @ 0.31A | 25      | 2.0x2.0x0.82   | 8    | 5.0       | 5.0       | 100            | 39.95   | 35.95   | 32.95   | 29.95   |



## Isolated Open-Frame DC-to-DC Converters

- Isolation voltage: 1500VDC
- 100% burn-in test
- Industry standard footprint
- Remote ON/OFF
- Two-year warranty

CXE15/CXA20/EXQ60: No minimum load

Blowout Prices



CXE15

| Part No. | Mfr. Part No.      | Input Range | Output                   |           | Size (L" x W" x H") | Pins | Line Reg. (±%) | Load Reg. (±%) | Ripple & Noise (mV p-p) | Pricing |         |         |
|----------|--------------------|-------------|--------------------------|-----------|---------------------|------|----------------|----------------|-------------------------|---------|---------|---------|
|          |                    |             | Voltage @ Current        | Power (W) |                     |      |                |                |                         | 1       | 5       | 25      |
| 219070   | CXE15-48S1V8       | 33-75V      | +1.8V @ 6A               | 10.8      | 2.0 x 1.0 x 0.35    | 6    | 0.3            | 2.0            | 40                      | \$22.95 | \$19.95 | \$17.95 |
| 219088   | CXE15-48S2V5       | 33-75V      | +2.5V @ 6A               | 15        | 2.0 x 1.0 x 0.35    | 6    | 0.3            | 1.5            | 40                      | 22.95   | 19.95   | 17.95   |
| 218894   | EXQ60-48D3V3-2V5-R | 33-75V      | +2.5V @ 16A; +3.3V @ 12A | 40        | 2.3 x 1.5 x 0.50    | 7    | —              | —              | 60                      | 64.95   | 59.95   | 54.95   |
| 219053   | CXE15-48S3V3       | 33-75V      | +3.3V @ 4.5A             | 15        | 2.0 x 1.0 x 0.35    | 6    | 0.1            | 0.5            | 70                      | 22.95   | 19.95   | 17.95   |
| 219109   | CXA20-48S3V3       | 18-75V      | +3.3V @ 6A               | 19.8      | 2.0 x 1.6 x 0.41    | 8    | 0.1            | 0.2            | 75                      | 22.95   | 19.95   | 17.95   |
| 218907   | EXQ60-48D05-3V3-R  | 33-75V      | +3.3V @ 15A; +5V @ 12A   | 60        | 2.3 x 1.5 x 0.50    | 7    | —              | —              | 60                      | 64.95   | 59.95   | 54.95   |

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 197.

Save 10% or more on most batteries!

## Lithium, NiCd & NiMH Batteries

Applications: personal computers, workstations, test equipment, feature telephones, copiers, fax machines, video scramblers/descramblers and remotes.



Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6

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### Lithium

| Part No. | Product No. | Manufacturer | Fig. | Size      | Volts | mAh  | Terminals/Connection         | Dimensions             | 1      | 10     | 25     |
|----------|-------------|--------------|------|-----------|-------|------|------------------------------|------------------------|--------|--------|--------|
| 673627   | NB4414/F9D  | Panasonic    | 1    | Coin cell | 2.0   | 1.0  | 4.8mm body w/ tabs (2)       | 0.18"Dia. x 0.06"Thick | \$ .49 | \$ .45 | \$ .39 |
| 673601   | NBL621/F9DE | Panasonic    | 1    | Coin cell | 2.0   | 4.0  | Vertical PC mount            | 0.27"Dia. x 0.10"Thick | .85    | .75    | .65    |
| 2119865  | CR1632      | Various      | 2    | Coin cell | 3     | 120  | Clock/memory/watch           | 0.63"Dia. x 0.13"Thick | 1.09   | .95    | .85    |
| 11789    | CR2325      | Various      | 2    | Coin cell | 3     | 165  | Clock/memory/watch           | 0.91"Dia. x 0.13"Thick | 1.79   | 1.59   | 1.45   |
| 14162    | CR2032      | Various      | 2    | Coin cell | 3     | 180  | Clock/memory/watch           | 0.79"Dia. x 0.13"Thick | 1.25   | 1.09   | .99    |
| 1585451  | DL2032      | Duracell     | 2    | Coin cell | 3     | 180  | Clock/memory/watch           | 0.79"Dia. x 0.13"Thick | 1.49   | 1.35   | 1.19   |
| 689071   | DL2450      | Various      | 2    | Coin cell | 3     | 600  | Clock/memory/watch           | 0.95"Dia. x 0.18"Thick | 2.25   | 1.95   | 1.75   |
| 2113691  | BR2330      | Dantona      | 3    | Coin cell | 3     | 255  | Clock/memory/watch (w/ legs) | 0.90"Dia. x 0.12"Thick | 2.45   | 2.19   | 1.95   |
| 2119873  | CR2         | Various      | 4    | Cylinder  | 3     | 750  | Consumer tip/digital camera  | 1.66"L x 0.61"Dia.     | 4.95   | 4.49   | 4.09   |
| 2119881  | 2CR5        | Various      | 5    | Dual cyl. | 6     | 1400 | (2) term. on one end         | 1.76"L x 1.33"Dia.     | 7.95   | 7.29   | 6.95   |
| 126754   | TL5101S     | Tadiron      | 4    | Sub-AA    | 3.6   | 850  | Macintosh*                   | 0.95"L x 0.56"Dia.     | 4.75   | 4.25   | 3.55   |
| 263898   | ER14250     | ReliaPro     | 4    | Sub-AA    | 3.6   | 1000 | With axial leads             | 1.00"L x 0.55"Dia.     | 4.75   | 4.25   | 3.85   |
| 240266   | ER14250     | ReliaPro     | 4    | Sub-AA    | 3.6   | 1000 | Consumer tip                 | 1.00"L x 0.55"Dia.     | 4.25   | 3.95   | 3.55   |
| 673635   | CA1/2AA     | Various      | 6    | 1/2 AA    | 3     | 950  | Barrel w/ leads (2)          | 1.0"L x 0.58"Dia.      | 2.49   | 2.29   | 1.95   |
| 33371    | TL5101P     | Tadiron      | 7    | 1/2 AA    | 3.6   | 850  | Barrel w/ leads (clock/mem.) | 0.93"L x 0.56"Dia.     | 6.25   | 5.65   | 4.95   |
| 33398    | TL5104P     | Tadiron      | 8    | AA        | 3.6   | 1900 | Barrel w/ leads (clock/mem.) | 1.88"L x 0.56"Dia.     | 6.95   | 6.25   | 5.65   |
| 146114   | TL5104/S    | Tadiron      | 9    | AA        | 3.6   | 1900 | Barrel pressure (clock/mem.) | 1.91"L x 0.56"Dia.     | 6.95   | 6.25   | 5.65   |
| 263935   | ER14505     | ReliaPro     | 10   | AA        | 3.6   | 2400 | With solder tabs             | 2.00"L x 0.55"Dia.     | 5.95   | 5.35   | 4.95   |
| 240258   | CR123A      | ReliaPro     | 11   | A         | 3     | 1300 | Photo/computer               | 1.36"L x 0.65"Dia.     | 2.75   | 2.49   | 2.25   |

### NiCd - Rechargeable

| Part No. | Product No. | Manufacturer | Fig. | Size | Volts | mAh  | Terminals/Connection    | Dimensions         | 1      | 10     | 25     |
|----------|-------------|--------------|------|------|-------|------|-------------------------|--------------------|--------|--------|--------|
| 261657   | AA-700-CT   | ReliaPro     | 12   | AA   | 1.2   | 700  | Consumer tip            | 1.90"L x 0.55"Dia. | \$1.69 | \$1.49 | \$1.35 |
| 244515   | AA-1000-CT  | ReliaPro     | 12   | AA   | 1.2   | 1000 | Consumer tip            | 1.90"L x 0.55"Dia. | 2.75   | 2.49   | 2.25   |
| 126720   | 351FT       | Various      | 13   | N/A  | 3.6   | 60   | 2-lead (pin), barrel    | 0.72"L x 0.61"Dia. | 4.49   | 3.95   | 3.55   |
| 119116   | 3/V60R      | Dantona      | 13   | N/A  | 3.6   | 60   | 3-lead (pin), barrel    | 0.72"L x 0.61"Dia. | 3.35   | 2.95   | 2.65   |
| 101653   | NA101-1     | Various      | 14   | N/A  | 3.6   | 60   | 2-lead (eyelet), barrel | 0.72"L x 0.61"Dia. | 3.95   | 3.55   | 3.19   |

### NiMH - Rechargeable

| Part No. | Product No. | Manufacturer | Fig. | Size | Volts | mAh  | Terminals/Connection | Dimensions         | 1      | 10     | 25     |
|----------|-------------|--------------|------|------|-------|------|----------------------|--------------------|--------|--------|--------|
| 231095   | AAA-750NM   | Dantona      | 15   | AAA  | 1.2   | 600  | Consumer tip         | 1.70"L x 0.40"Dia. | \$3.45 | \$3.09 | \$2.79 |
| 244822   | AA-1800-CT  | ReliaPro     | 16   | AA   | 1.2   | 1800 | Consumer tip         | 1.90"L x 0.55"Dia. | 3.55   | 3.19   | 2.89   |
| 231087   | AA-1800NM   | Dantona      | 17   | AA   | 1.2   | 1600 | Consumer tip         | 1.90"L x 0.55"Dia. | 3.95   | 3.55   | 3.19   |
| 244620   | 9V-200      | Bao Tong USA | 18   | 9V   | 9     | 200  | Snap                 | 1.94"L x 0.65"Dia. | 9.75   | 8.75   | 7.95   |
| 231108   | 9V-8.4NM    | Dantona      | 19   | 9V   | 9     | 150  | Snap                 | 1.94"L x 0.61"Dia. | 10.95  | 9.95   | 8.95   |
| 231124   | D-900NM     | Dantona      | 20   | D    | 1.2   | 9000 | Consumer tip         | 2.30"L x 1.30"Dia. | 14.95  | 13.49  | 11.95  |

## Lead Acid Batteries

\*Web Code: LBR

- Use with UPS Backup Systems, Security Fire Alarms, Wheel Chairs, Scooters
- Sealed • UL approved
- Rechargeable • Two-year warranty



Lead Acid Chargers on next page



264014



264031



318924



264057



264065



264073

| Part No. | Mfr. Part No. | Nominal Voltage | Amp-Hrs. | Cross Reference |          |              |          | Terminal Size        | Size (L" x W" x H") | Wt. (lbs.) | Pricing |        |
|----------|---------------|-----------------|----------|-----------------|----------|--------------|----------|----------------------|---------------------|------------|---------|--------|
|          |               |                 |          | Panasonic       | YUASA    | Eagle Picher | Tempest  |                      |                     |            | 1       | 10     |
| 138692   | K9120-REVC    | 6               | 1.3      | Honeywell       | —        | —            | —        | Quick connect 0.187" | 2.1 x 1.0 x 3.8     | 0.7        | \$3.49  | \$2.95 |
| 264014   | TY-6-4.5      | 6               | 4.5      | LCR6VP          | NP4-6    | CF16V4       | TR-4-6   | Quick connect 0.187" | 2.8 x 1.9 x 4.0     | 1.9        | 11.95   | 10.75  |
| 317024   | LA-TY-6-12    | 6               | 12.0     | —               | —        | —            | —        | Quick connect 0.187" | 5.9 x 1.9 x 3.7     | 4.6        | 19.95   | 17.95  |
| 318844   | LA-TY-12-1.2  | 12              | 1.2      | —               | —        | —            | —        | Quick connect 0.187" | 3.8 x 1.7 x 2.1     | 1.3        | 14.95   | 13.45  |
| 264031   | TY-12-2.3     | 12              | 2.3      | LCR12V2.2P      | NP2.3-12 | CF12V1.5     | TR2.3-12 | Quick connect 0.187" | 7.0 x 1.3 x 2.4     | 2.1        | 19.95   | 17.95  |
| 318924   | LA-TY-12-3.2  | 12              | 3.2      | —               | —        | —            | —        | Quick connect 0.187" | 5.3 x 2.7 x 2.4     | 3.1        | 22.95   | 20.65  |
| 264057   | TY-12-7.5     | 12              | 7.5      | LCR12V7.2BP     | NP712    | CFM12V65     | TR7.5-12 | Quick connect 0.187" | 5.9 x 2.6 x 3.7     | 5.6        | 22.95   | 20.65  |
| 264065   | TY-12-12      | 12              | 12.0     | PS12120         | —        | CFM12V12     | TR12-12  | Quick connect 0.187" | 5.9 x 3.9 x 3.9     | 9.0        | 39.95   | 35.95  |
| 264073   | TY-12-18      | 12              | 18.0     | LCR12V17BP      | NPG18-12 | CF12V18      | TR18-12  | Quick connect 0.472" | 7.1 x 3.0 x 6.6     | 13.3       | 47.95   | 42.95  |
| 318852   | LA-TY-12-35   | 12              | 35.0     | —               | —        | —            | —        | Nut & bolt           | 7.6 x 5.1 x 6.3     | 27.6       | 79.95   | 75.95  |

\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above



# Battery Holders, Snaps, Packs & Chargers

3 LEVELS OF SAVINGS  
NAME BRANDS HOUSE BRANDS FACTORY OVERRUN

JAMECO ReliaPro

## Battery Holders

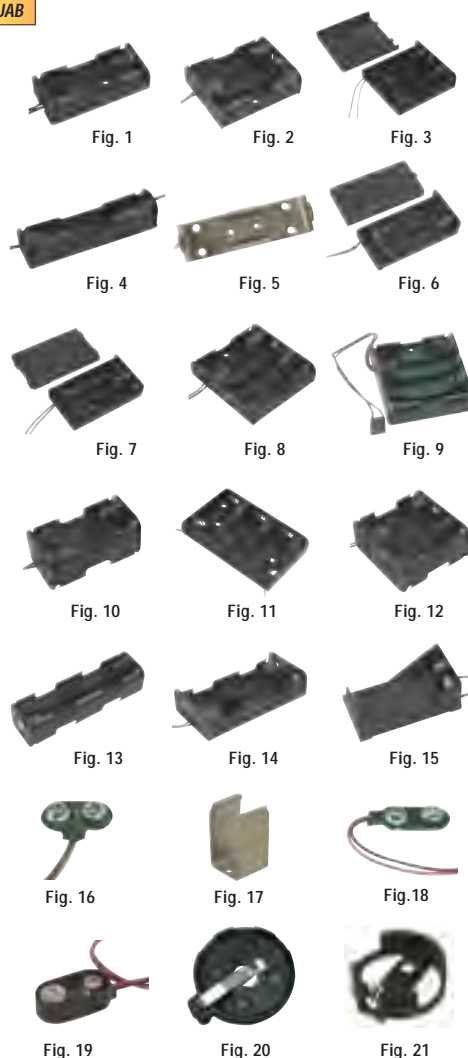
★ Web Code: UAB

Eliminate battery mounting problems in portable DC power applications and products. These holders are made from special materials that maintain retention properties longer than conventional holders. They can come with leads, tabs or snaps.

| Part No. | Cross Ref. No. | *Mfr. Fig. | No. of Cells | Connector             | Sides    | Features                   | 1     | 10    | 100   | 500   |
|----------|----------------|------------|--------------|-----------------------|----------|----------------------------|-------|-------|-------|-------|
| 216283   | BH-421-1A      | JRP        | 1            | 2-AAA                 | Wires    | Single                     | \$.59 | \$.55 | \$.49 | \$.39 |
| 216292   | SBH-421-AS     | JRP        | 1            | 2-AAA                 | Wires    | Single w/ cover & switch   | .65   | .59   | .55   | .49   |
| 216303   | BH-431-1A      | JRP        | 2            | 3-AAA                 | Wires    | Single                     | .79   | .69   | .65   | .59   |
| 216312   | SBH-431-1AS    | JRP        | 2            | 3-AAA                 | Wires    | Single w/ cover & switch   | .95   | .85   | .75   | .69   |
| 216339   | SBH-441-AS     | JRP        | 3            | 4-AAA                 | Wires    | Single w/ cover & switch   | 1.45  | 1.29  | 1.19  | .89   |
| 216072   | BH-311-2A      | JRP        | 4            | 1-AA                  | Wires    | Single                     | 1.05  | .95   | .85   | .75   |
| 643954   | 139            | KEY        | 5            | 1-AA                  | Tabs     | Single                     | .55   | .49   | .45   | .39   |
| 216081   | BH-321-2A      | JRP        | 1            | 2-AA                  | Wires    | Single                     | .75   | .69   | .59   | .55   |
| 216099   | BH-321-4A      | JRP        | 1            | 2-AA                  | Wires    | Single w/ mounting tabs    | .75   | .69   | .59   | .55   |
| 216102   | SBH-321-2AS    | JRP        | 6            | 2-AA                  | Wires    | Single w/ cover, no switch | .75   | .69   | .59   | .55   |
| 216120   | SBH-321-1AS    | JRP        | 6            | 2-AA                  | Wires    | Single w/ cover & switch   | .89   | .79   | .72   | .65   |
| 216136   | BH-331-A       | JRP        | 2            | 3-AA                  | Wires    | Single                     | .85   | .77   | .69   | .62   |
| 216144   | SBH-331-AS     | JRP        | 7            | 3-AA                  | Wires    | Single w/ cover & switch   | .79   | .69   | .65   | .59   |
| 216152   | BH-341-2A      | JRP        | 8            | 4-AA                  | Wires    | Single                     | 1.15  | 1.05  | .95   | .85   |
| 105858   | BH-PC          | \$         | 9            | 4-AA                  | Wires    | Single wires w/ connector  | .95   | .85   | .79   | .64   |
| 216179   | BH-343-1A      | JRP        | 10           | 4-AA                  | Wires    | Dual                       | .79   | .69   | .65   | .59   |
| 216187   | SBH-341-1AS    | JRP        | 3            | 4-AA                  | Wires    | Single w/ cover & switch   | 1.05  | .95   | .85   | .75   |
| 2095453  | SBH-341-1A     | JRP        | 3            | 4-AA                  | Wires    | Single w/ cover, no switch | .99   | .85   | .75   | .65   |
| 216216   | BH-363-A       | JRP        | 12           | 6-AA                  | Wires    | Dual                       | .65   | .59   | .55   | .49   |
| 216223   | BH-364-A       | JRP        | 11           | 6-AA                  | Wires    | Single                     | .95   | .85   | .79   | .65   |
| 216240   | BH-383-A       | JRP        | 12           | 8-AA                  | Wires    | Dual                       | 1.09  | .99   | .89   | .69   |
| 216267   | BH-383-B       | JRP        | 12           | 8-AA                  | Snaps    | Dual                       | 1.19  | 1.09  | .99   | .79   |
| 216259   | BH-382-B       | JRP        | 13           | 8-AA                  | Snaps    | Dual                       | 1.35  | 1.19  | 1.09  | .79   |
| 216363   | BH-242-1A      | JRP        | 14           | 4-C                   | Wires    | Single                     | 1.09  | .99   | .89   | .69   |
| 216371   | BH-111-1A      | JRP        | 4            | 1-D                   | Wires    | Single                     | .69   | .65   | .59   | .49   |
| 216390   | BH-121-1A      | JRP        | 1            | 2-D                   | Wires    | Single                     | 1.19  | 1.09  | .95   | .79   |
| 216401   | BH-142-A       | JRP        | 14           | 4-D                   | Wires    | Single                     | 1.35  | 1.19  | 1.09  | .89   |
| 216427   | BH-9V-A        | JRP        | 15           | 1-9V                  | Wires    | Single                     | .75   | .69   | .59   | .55   |
| 11280    | A104-R         | JRP        | 16           | 1-9V                  | Wires    | Single 3"L, 26AWG, snaps   | .39   | .35   | .29   | .25   |
| 105794   | GBH-1009-R     | JRP        | 17           | 1-9V                  | Wires    | Single Metal holder        | .35   | .32   | .29   | .25   |
| 1949488  | BAT-SNAP-4     | ◆          | 18           | 1-9V                  | Wires    | Single 4"L, 26AWG, snaps   | .29   | .26   | .23   | .19   |
| 109154   | BC6-R          | JRP        | 18           | 1-9V                  | Wires    | Single 6"L, 26AWG, snaps   | .29   | .26   | .23   | .19   |
| 216452   | SBS-IR-1-R     | JRP        | 19           | 1-9V                  | Wires    | Single 6"L, 26AWG, snaps   | .35   | .32   | .29   | .25   |
| 101470   | A102-R         | JRP        | 18           | 1-9V                  | Wires    | Single 10"L, 26AWG, snaps  | .35   | .32   | .29   | .25   |
| 236996   | 103            | KEY        | 20           | 1-CR2032              | PC mount | Coin cell                  | 1.65  | 1.49  | 1.35  | 1.19  |
| 355434   | 17002-00603    | JRP        | 21           | 1-CR2032              | PC mount | Coin cell                  | .79   | .69   | .65   | .59   |
| 38543    | 2S2325         | JRP        | 20           | 1-CR2354 or 2- CR2325 | PC mount | Coin cell                  | .79   | .69   | .65   | .59   |

\$ Battery holder used in many personal computers

◆ Blue Part No. = Limited Quantity Available



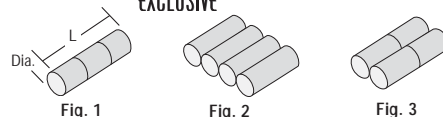
JAMECO ReliaPro

## Rechargeable Battery Packs

JAMECO EXCLUSIVE

★ Web Code: LAA

| Part No. | Fig. | Volt | Cell      | Size (L x Dia.)                  | Type | mAh  | Connection | Price   | 10      | 25      |
|----------|------|------|-----------|----------------------------------|------|------|------------|---------|---------|---------|
| 298821   | 1    | 3.6  | D Single  | 7.0" x 1.29" (177.8mm x 32.8mm)  | NiCd | 5000 | Solder tab | \$14.95 | \$13.95 | \$12.95 |
| 298652   | 2    | 4.8  | SC Single | 1.72" x 0.9" (43.7mm x 22.9mm)   | NiCd | 2200 | Solder tab | 15.95   | 14.49   | 12.95   |
| 299621   | 3    | 4.8  | D Single  | 4.75" x 1.29" (120.7mm x 32.8mm) | NiCd | 5000 | Lead wire  | 29.95   | 26.95   | —       |



## 360 & 1000-Watt Single Output Lead Acid Battery Chargers

★ Web Code: ABC

- Input: 115VAC/230VAC @ 47-64Hz (switch-selectable)
- 1952409/1952417/1954332/1954341/1954359: with built-in passive PFC function
- Overload, short-circuit, reverse polarity, over voltage, over temperature protection
- 1952417/1954308/1954316/1954324: Fan on/off control (depending on charging current)
- Charger for lead acid batteries
- 1954316/1954324: Size: 10.0"L x 5.3"W x 1.9"H, Weight: 3.3 lbs.
- 1952409/1952417/1954308: Size: 9.3"L x 5.3"W x 1.9"H, Weight: 3.3 lbs.
- 1954332/1954341/1954359: Size: 11.8"L x 7.2"W x 2.8"H, Weight: 7.7 lbs.



| Part No. | Mfr. Part No. | Watts | Boost Charge Voltage | Float Charge Voltage | Recommended Battery Capacity (AMP Hours) | Pricing |         |
|----------|---------------|-------|----------------------|----------------------|--|---------|---------|
|          |               |       |                      |                      |  | 1       | 5       |
| 1952417  | PB-360P-12    | 360   | 14.4                 | 13.6                 | 80-200                                   | \$94.95 | \$84.95 |
| 1954308  | PB-360N-12    | 360   | 14.4                 | 13.6                 | 80-200                                   | 94.95   | 84.95   |
| 1954316  | PB-360N-24    | 360   | 28.8                 | 27.2                 | 40-125                                   | 94.95   | 84.95   |
| 1954324  | PB-360N-48    | 360   | 57.6                 | 54.4                 | 20-65                                    | 94.95   | 84.95   |
| 1954332  | PB-1000-12    | 1000  | 14.4                 | 13.8                 | 200-600                                  | 349.95  | 314.95  |
| 1954341  | PB-1000-24    | 1000  | 28.8                 | 27.6                 | 120-350                                  | 349.95  | 314.95  |
| 1954359  | PB-1000-48    | 1000  | 57.6                 | 55.2                 | 60-175                                   | 349.95  | 314.95  |

[www.Jameco.com](http://www.Jameco.com)

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\* JRP = Jameco ReliaPro | KEY = Keystone | ◆ Manufacturer Varies

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 197.

## Evergreen, Energizer®, Duracell® & Lexcell® Alkaline Batteries



| Part No. | Size                   | 1      | 10     |
|----------|------------------------|--------|--------|
| 2120153  | 9-volt Winco           | \$1.79 | \$1.59 |
| 198731   | 9-volt Energizer®      | 2.05   | 1.85   |
| 198791   | 9-volt Duracell®       | 2.95   | 2.65   |
| 215845   | 1.5V D-cell Energizer® | 1.15   | 1.05   |

| Part No. | Size                          | Min | Ea. Price |
|----------|-------------------------------|-----|-----------|
| 2112461  | 9V, Super Alkaline Lexcell®†† | 2   | \$.98     |
| 2112452  | 1.5V, D-cell Lexcell®††       | 2   | .87       |
| 2112428  | 1.5V, C-cell Lexcell®††       | 2   | .81       |
| 2112444  | 1.5V, AA Lexcell®†            | 4   | .20       |
| 2112436  | 1.5V, AAA Lexcell®†           | 4   | .20       |

| Part No. | Size            | Min | 1     | 40    | 100   |
|----------|-----------------|-----|-------|-------|-------|
| 198707   | AA Energizer®†  | 4   | \$.79 | \$.69 | \$.65 |
| 198715   | AAA Energizer®† | 4   | .69   | .59   | .55   |
| 115432   | AAA Duracell®†† | 2   | .69   | .59   | .49   |

† Sold in multiples of 4 †† Sold in multiples of 2

\*Web Code: NBF

Blowout  
Prices

## Silver Oxide and Zinc Chloride Batteries

Applications: personal computers, workstations, test equipment, feature telephones, copiers, fax machines, video scramblers/descramblers and remotes.

NEW  
MARKED IN PINK

| Part No. | Cross Ref. | Description                  | 1      | 10     |
|----------|------------|------------------------------|--------|--------|
| 140783   | 357        | Silver oxide, button, 175mAh | \$1.55 | \$1.39 |
| 2119831  | S736S      | Silver oxide, button, 34mAh  | 1.25   | 1.09   |
| 2119849  | S1131S     | Silver oxide, button, 73mAh  | 1.35   | 1.19   |
| 2119857  | S1142S     | Silver oxide, button, 116mAh | 1.45   | 1.29   |
| 2119890  | ER6MSG     | Zinc chloride, AA            | .59    | .55    |
| 2119822  | ER03MSG    | Zinc chloride, AAA           | .69    | .59    |
| 151095   | GF6F22     | Zinc chloride, 9V            | 1.35   | 1.19   |



## Automatic Lead Acid Battery Chargers

- Safely charge and maintain lead acid batteries without supervision
- Safe for gel cell batteries
- Multi-stage charging circuit prevents batteries from overcharging
- High frequency MOSFET switching design
- Input voltage: 98 to 132VAC @ 50/60Hz
- Short-circuit, overload, and reverse polarity protection
- Analog amp meter
- Extends battery life
- Output banks: 3

\*Web Code: ABC



| Part No. | Mfr. Part No. | Output Volt.  | Size (L"xW"xH")  | Wt. (lbs.) | 1        | 10       |
|----------|---------------|---------------|------------------|------------|----------|----------|
| 673416   | SEC-1215A     | 13.5VDC @ 15A | 8.5 x 8.4 x 3.3  | 4.8 .....  | \$145.95 | \$131.95 |
| 673432   | SEC-2415A     | 27.0VDC @ 15A | 10.8 x 8.4 x 3.3 | 6.4 .....  | 239.95   | 215.95   |

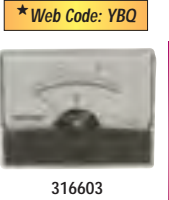
## Panel Meters



## Analog Panel Meters

- Includes mounting hardware
- 316507: Includes current shunt

| Part No. | Mfr. P/N  | Range      | Size (W"xH"xD") | 1      | 10     |
|----------|-----------|------------|-----------------|--------|--------|
| 316603   | AVM6015   | 0 - 15VDC  | 2.4 x 1.8 x 1.3 | \$9.95 | \$8.95 |
| 316671   | AVM7015   | 0 - 15VDC  | 2.8 x 2.4 x 1.4 | 9.95   | 8.95   |
| 316638   | AVM6030   | 0 - 30VDC  | 2.4 x 1.8 x 1.3 | 9.95   | 8.95   |
| 316654   | AVM7030   | 0 - 30VDC  | 2.8 x 2.4 x 1.4 | 9.95   | 8.95   |
| 316718   | AVM60150  | 0 - 150VAC | 2.4 x 1.8 x 1.3 | 9.95   | 8.95   |
| 316785   | AVM60300  | 0 - 300VAC | 2.4 x 1.8 x 1.3 | 9.95   | 8.95   |
| 315301   | AIM60005  | 0 - 50µA   | 2.4 x 1.8 x 1.3 | 9.95   | 8.95   |
| 316523   | AIM6050   | 0 - 50mA   | 2.4 x 1.8 x 1.3 | 9.95   | 8.95   |
| 316486   | AIM60100  | 0 - 100mA  | 2.4 x 1.8 x 1.3 | 9.95   | 8.95   |
| 316558   | AIM60500  | 0 - 500mA  | 2.4 x 1.8 x 1.3 | 9.95   | 8.95   |
| 316566   | AIM60500  | 0 - 5A     | 2.4 x 1.8 x 1.3 | 9.95   | 8.95   |
| 316582   | AIM705000 | 0 - 5A     | 2.8 x 2.4 x 1.4 | 9.95   | 8.95   |
| 316494   | AIM6010A  | 0 - 10A    | 2.4 x 1.8 x 1.3 | 9.95   | 8.95   |
| 316507   | AIM6030A  | 0 - 30A    | 2.4 x 1.8 x 1.3 | 12.95  | 11.65  |



## 0.6" High 3½ & 4½-Digit LCD Digital Panel Meters



- Input ranges: 200mV, 20V, 200V, 500V
- Accuracy: ±0.5%
- Supply voltage: 8-12VDC (recommend 9V battery P/N 151095, above left)
- Automatic polarity indication
- Input impedance: >100MΩ
- Size: 2.7"W x 1.7"H






\*Web Code: WBU

| Part No. | Cross Ref. No. | Description                       | 1       | 10     | 25     |
|----------|----------------|-----------------------------------|---------|--------|--------|
| 108388   | PM-428         | 3½-digit (no bezel, snap mount)   | \$10.95 | \$9.95 | \$8.95 |
| 175951   | PM-128         | 3½-digit (bezel, screw mount)     | 12.95   | 11.65  | 10.49  |
| 146835   | PM-188BL       | 3½-digit (with backlight display) | 14.95   | 13.45  | 11.95  |
| 123140   | PM-328         | 4½-digit (bezel, screw mount)     | 29.95   | 26.95  | 24.25  |

Can not use in common ground applications

## Drill Mountable Panel Meters

- Mount by simply drilling a single hole (7/32") and insert the threaded section of the panel meter
- Module size: 1.71"L x 0.84"W

| Part No. | Mfr.     | Part No.  | Description                        | Digit Ht. | Supply Volt. | Measurement Range        | 1       | 5       | 25      |
|----------|----------|---|------------------------------------|-----------|--------------|--------------------------|---------|---------|---------|
| 2113201  | EMV-1125 |  | 4-digit, LCD volt/current meter    | .50"      | 7.5-15VDC    | 200mV-20V/200µA-200mA... | \$32.95 | \$29.95 | \$26.95 |
| 2095040  | EMV 1200 |  | 3-digit, signal pwr, LCD voltmeter | .50"      | 3-50VDC      | 4-25VDC .....            | 33.95   | 30.95   | 27.95   |
| 2095058  | EMT 1900 |  | 3½-digit, LCD thermometer          | .50"      | 4-28VDC      | 14-122°F .....           | 33.95   | 30.95   | 27.95   |
| 2095074  | EMC 1500 |  | 5-digit, LCD hour meter            | .35"      | 5-27VDC      | 99999 hours .....        | 33.95   | 30.95   | 27.95   |
| 2095082  | EMA 1710 |  | Analog-style LCD panel meter       | —         | 5-12VDC      | 0-1VDC                   | 33.95   | 30.95   | 27.95   |

## Multi-Function Graphics Display

Customize the SGD-24-M 2.4" color TFT graphics meter with a simple click of the mouse. Using Lascar's Panel Pilot Windows-based software downloadable from [www.panelpilot.com](http://www.panelpilot.com) select from a number of available meter styles previously provided by a traditional panel meter, choose colors, text labels, voltage input scaling and even display your company logo on power-up. Save all selections to the meter and computer, detach the unit and mount to your panel.

| Part No. | Mfr. Part No. | Description                             | 1       | 5       | 25      |
|----------|---------------|---|---------|---------|---------|
| 2115354  | SGD-24-M      | 3½-digit, bargraph & analog style meter | \$94.95 | \$86.95 | \$79.95 |

- Operating voltage: 4-30VDC
- Adjustable 0 to 40VDC input
- Screw terminal connections
- Programmable via USB interface
- Free Windows-based configuration software



\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above



Clamp, Analog & Digital Multimeters

See [www.Jameco.com](http://www.Jameco.com) for complete specifications

3 LEVELS OF SAVINGS

NAME BRANDS

HOUSE BRANDS

FACTORY OVERRUN

RoHS

RoHS Compliant Product

RoHS Also Available

DETAILS ON PAGE 197

Clamp, Analog & Digital Multimeters

EXTECH

38073

P/N 1536843

\$16.95

DT830B

P/N 1928476

\$8.95

EXTECH

MN35

P/N 645618

\$19.95

EXTECH

381676

P/N 1537184

\$39.95

Wavetek Meterman

DM7

P/N 214261

\$24.95

MASTECH

M300

P/N 220812

\$10.95

DELTA

DVM850BL

P/N 355207

\$17.95

JAMECO BenchPro

BP-1562

P/N 318781

\$10.95

MASTECH

MAS830L

P/N 220759

\$14.95

MASTECH

MAS838

P/N 220741

\$19.95

JAMECO BenchPro

BP-1415

P/N 318764

\$59.95

EXTECH

EX330

P/N 645626

\$53.95

EXTECH

EX430

P/N 1581177

\$89.95

EXTECH

EX505

P/N 2094127

\$109.95

FLUKE

115

P/N 1537328

\$156.95

FLUKE

117

P/N 1537336

\$199.95

\*Web Code: HBK

NEW MARKED IN PINK

Basic Measurement Functions

Test Functions

Special Functions

\*Web Code: HBK

| Jameco Part No. | Manufacturer Part No. | Type  | No. of Functions | Display Count | Resolution (max DC) | DC Voltage Ranges (V) | AC Voltage Ranges (V) | DC Current Ranges (A) | AC Current Ranges (A) | Resistance Ranges (Ω) | Capacitance Ranges (F) |   | Frequency Ranges (Hz) | Temperature Range |              | Diode Test | Battery Test | Continuity Test | Transistor hFE Test | Aurorange | Analog Bargraph | RS-232 PC Interface | True RMS | Size (H"xW"xD")    | Jameco Part No. | Pricing |         |
|-----------------|-----------------------|-------|------------------|---------------|---------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------------|---|-----------------------|-------------------|--------------|------------|--------------|-----------------|---------------------|-----------|-----------------|---------------------|----------|--------------------|-----------------|---------|---------|
|                 |                       |       |                  |               |                     |                       |                       |                       |                       |                       |                        |   |                       | °C                | °F           |            |              |                 |                     |           |                 |                     |          |                    |                 | 1       | 5       |
| 1536843         | Extech 38073          | AMM   | 6                | 1             | —                   | 2.5V - 300V           | 10V - 300V            | 0.5A - 250mA          | —                     | 10KΩ - 1MΩ            | —                      |   | —                     | —                 | —            |            | ✓            |                 | ✓                   |           |                 |                     |          | 3.5 x 6.1 x 1.9    | 1536843         | \$16.95 | \$15.95 |
| 1928476         | Vastech DT830B        | DMM   | 4                | 1999          | —                   | 200mV - 1000V         | 200V - 750V           | 200μA - 10A           | —                     | 200Ω - 2MΩ            | —                      |   | —                     | —                 | —            | ✓          |              |                 | ✓                   |           |                 |                     |          | 5.0 x 2.7 x 1.0    | 1928476         | 8.95    | 7.95    |
| 645618          | Extech MN35           | DMM   | 5                | 2000          | 100μV               | 200mV - 600V          | 200mV - 600mV         | 200mA - 10A           | —                     | 200Ω - 20MΩ           | —                      |   | —                     | -20 to 750        | -200 to 1400 | ✓          |              | ✓               |                     |           |                 |                     |          | 5.4 x 25.8 x 1.5   | 645618          | 19.95   | 17.95   |
| 1537184         | Extech 381676         | DMM   | 5                | 2000          | 100μV               | 200mV - 600V          | 200m - 600V           | —                     | —                     | 200Ω - 20MΩ           | —                      |   | —                     | —                 | —            | ✓          |              | ✓               |                     | ✓         |                 |                     |          | 8.2 x 1.5 x 1.1    | 1537184         | 39.95   | 36.95   |
| 214261          | Wavetek DM7           | DMM   | 6                | 1999          | 1mV                 | 2V - 600V             | 200V - 600V           | 200mA                 | —                     | 2Ω - 2MΩ              | —                      |   | —                     | —                 | —            | ✓          | ✓            |                 |                     |           |                 |                     |          | 5.5 x 3.1 x 1.5    | 214261          | 24.95   | 19.95   |
| 220812          | Mastech M300          | DMM   | 6                | 2000          | 1mV                 | 2V - 500V             | 200V - 500V           | 200mA                 | —                     | 2kΩ - 2MΩ             | —                      |   | —                     | —                 | —            | ✓          |              | ✓               |                     |           |                 |                     |          | 4.7 x 2.7 x 0.8    | 220812          | 10.95   | 9.95    |
| 355207          | Velleman DVM850BL     | DMM   | 6                | 2000          | 100μV               | 200mV - 100V          | 200V - 600V           | 200μA - 10A           | —                     | 200Ω - 2MΩ            | —                      | ↔ | —                     | —                 | —            | ✓          |              | ✓               |                     | ✓         |                 |                     |          | 5.4 x 2.7 x 1.2    | 355207          | 17.95   | 15.95   |
| 318781          | BenchPro BP-1562      | DMM   | 6                | 2000          | 100μV               | 200mV - 600V          | 200V - 750V           | 200μA - 10A           | —                     | 200Ω - 2MΩ            | —                      |   | —                     | —                 | —            | ✓          |              |                 | ✓                   |           |                 |                     |          | 5.4 x 2.7 x 1.2    | 318781          | 10.95   | 9.95    |
| 220759          | Mastech MAS830L       | DMM   | 7                | 2000          | 100μV               | 200mV - 600V          | 200V - 600V           | 200μA - 10A           | —                     | 200Ω - 2MΩ            | —                      |   | —                     | —                 | —            | ✓          |              | ✓               |                     | ✓         |                 |                     |          | 5.7 x 3.0 x 1.4    | 220759          | 14.95   | 13.95   |
| 2113471         | Fluke-87-5            | DMM   | 7                | 6,000         | 10uV                | 0 - 1000V             | 0 - 1000V             | 0 - 10A               | 0 - 10A               | 0 - 50M               | 0 - 9999μF             |   | 0 - 200K              | -200 to 1090      | -328 to 1994 | ✓          |              | ✓               |                     |           |                 | ✓                   |          | 7.4 x 3.4 x 1.3    | 2113471         | 379.95  | 359.95  |
| 220741          | Mastech MAS838        | DMM   | 8                | 2000          | 100μV               | 200mV - 600V          | 200V - 600V           | 2mA - 10A             | —                     | 200Ω - 2MΩ            | —                      |   | —                     | -20 to 1000       | —            | ✓          |              | ✓               |                     | ✓         |                 |                     |          | 5.7 x 3.0 x 1.4    | 220741          | 19.95   | 17.95   |
| 2113480         | Fluke-233             | DMM   | 8                | 10,000        | 100μV               | 0.1mV - 1000V         | 0.1mV - 1000V         | 1mA - 10A             | 1mA - 10A             | 0.1 - 40M             | 1000nF - 9999μF        |   | 0.1 - 50K             | -40 to 400        | -40 to 752   | ✓          |              | ✓               |                     | ✓         |                 |                     | ✓        | 2.1 x 2.1 x 7.6    | 2113480         | 299.95  | 284.95  |
| 318764          | BenchPro BP-1415      | DMM   | 8                | 20,000        | 10μV                | 200mV - 1000V         | 2V - 700V             | 2mA - 20A             | 2mA - 20A             | 200Ω - 200MΩ          | 2000pF - 20μF          |   | 20k                   | —                 | —            | ✓          |              | ✓               |                     | ✓         |                 |                     |          | 7.4 x 3.6 x 1.2    | 318764          | 59.95   | 54.95   |
| 645626          | Extech EX330*         | DMM   | 9                | 4000          | 100μV               | .1mV - 1000V          | .1mV - 750V           | .1μA - 10A            | .1μA - 10A            | .1Ω - 40MΩ            | .001nF - 200μF         |   | .001 - 10M            | -50 to 1000       | -58 to 1832  | ✓          |              | ✓               |                     | ✓         |                 |                     |          | 5.7 x 2.9 x 1.6    | 645626          | 53.95   | 49.95   |
| 1581177         | Extech EX430          | DMM   | 9                | 4000          | 100μV               | .1mV - 1000V          | .1mV - 750V           | .1μA - 20A            | .1μA - 20A            | .1Ω - 40MΩ            | .1nF - 100μF           |   | .001 - 10             | -20 to 750        | -4 to 1382   | ✓          |              | ✓               |                     | ✓         |                 |                     | ✓        | 7.4 x 3.2 x 2.0    | 1581177         | 89.95   | 79.95   |
| 2094127         | Extech EX505          | DMM   | 9                | 4000          | 10μV                | 400mV - 1000V         | 400mV - 1000V         | 400μA - 10A           | 400μA - 10A           | 400 - 40M             | 40nF - 100μF           |   | 5.999 - 9.99M         | -20 to 750        | -4 to 1382   | ✓          |              | ✓               |                     | ✓         |                 |                     | ✓        | 7.2 x 3.2 x 2.2    | 2094127         | 109.95  | 105.95  |
| 1537328         | Fluke 115†            | DMM   | 9                | 6000          | 100μV               | 600mV - 600V          | 600mV - 600V          | 6A - 20A              | 6A - 20A              | 600Ω - 40MΩ           | 1000nF - 9999μF        |   | 99.99 - 50k           | —                 | —            | ✓          |              | ✓               |                     | ✓         |                 | ✓                   | ✓        | 10.9 x 6.3 x 2.2   | 1537328         | 156.95  | 149.95  |
| 1537336         | Fluke 117*†           | DMM   | 9                | 6000          | 100μV               | 600mV - 600V          | 600mV - 600V          | 6A - 20A              | 6A - 20A              | 600Ω - 40MΩ           | 1000nF - 9999μF        | ↔ | 99.99 - 50k           | —                 | —            | ✓          |              | ✓               |                     | ✓         |                 | ✓                   | ✓        | 10.9 x 6.3 x 2.2   | 1537336         | 199.95  | 189.95  |
| 1939651         | Extech EX530          | DMM   | 9                | 40,000        | 100μV               | 400mV - 1000V         | 400mV - 1000V         | 400mA - 10A           | 400mA - 10A           | 400Ω - 40MΩ           | 40nF - 40μF            |   | 40 - 400              | -45 to 750        | -50 to 1382  | ✓          |              | ✓               |                     | ✓         |                 |                     | ✓        | 7.4 x 3.2 x 2.0    | 1939651         | 209.95  | 199.95  |
| 2118459         | RSR MS8229            | DMM   | 10               | 3999          | 1V                  | 400mV - 1000V         | 400mV - 750V          | 400μA - 10A           | 400μA - 10A           | 400Ω - 40MΩ           | 40μF - 100μF           |   | 9.999 - 200k          | -20 to 1000       | -4 to 1832   | ✓          |              | ✓               |                     | ✓         |                 |                     | ✓        | 7.7 x 3.6 x 2.2    | 2118459         | 99.95   | 89.95   |
| 692502          | Extech DM110          | DMM   | 10               | 4000          | 100μV               | 0 - 500V              | 0 - 500V              | 0A - .40              | 0A - .40A             | 400Ω - 40MΩ           | 0 - 200μF              |   | 9 - 10M               | —                 | —            | ✓          |              | ✓               |                     | ✓         |                 |                     | ✓        | 4.3 x 2.2 x 0.5    | 692502          | 34.95   | 30.95   |
| 220775          | Mastech MY64          | DMM   | 11               | 2000          | 100μV               | 200mV - 1000V         | 200mV - 700V          | 2mA - 10A             | 2mA - 10A             | 200Ω - 200MΩ          | 2nF - 20μF             |   | 2k - 20k              | -20 to 1000       | —            | ✓          |              | ✓               |                     | ✓         |                 |                     |          | 7.4 x 3.6 x 1.3    | 220775          | 39.95   | 35.95   |
| 645571          | Velleman DVM890F      | DMM   | 11               | 2000          | 100μV               | 200mV - 1000V         | 2V - 700V             | 2mA - 20A             | 20mA - 20A            | 200Ω - 200MΩ          | 2000pF - 20μF          |   | —                     | —                 | -58 to 1832  | ✓          |              | ✓               |                     | ✓         |                 |                     |          | 6.7 x 3.5 x 1.5    | 645571          | 44.95   | 39.95   |
| 211650          | Extech MN26T          | DMM   | 11               | 4000          | 100μV               | 400mV - 600V          | 400mV - 600V          | 400μA - 10A           | 400μA - 10A           | 400Ω - 40MΩ           | 4nF - 200μF            |   | 10 - 10M              | 0 to 760          | 0 to 1400    | ✓          |              | ✓               |                     | ✓         |                 |                     |          | 4.8 x 2.4 x 1.6    | 211650          | 39.95   | 37.95   |
| 117373          | BenchPro BP-1949      | DMM   | 11               | 4000          | 100μV               | 400mV - 400V          | 4V - 400V             | 400μA - 10A           | 400μA - 10A           | 400Ω - 4MΩ            | 50nF - 100μF           |   | 5 - 50k               | -20 to 1000       | -4 to 1532   | ✓          |              | ✓               |                     | ✓         |                 | ✓                   |          | 7.7 x 3.6 x 1.6    | 117373          | 79.95   | 69.95   |
| 137462          | MS8226T               | DMM   | 11               | 4000          | 100μV               | 400mV - 400V          | 4V - 400V             | 400μA - 10A           | 400μA - 10A           | 400Ω - 4MΩ            | 50nF - 100μF           |   | 5 - 50k               | -20 to 1000       | —            | ✓          |              | ✓               |                     | ✓         |                 | ✓                   | ✓        | 7.7 x 3.6 x 1.6    | 137462          | 99.95   | 89.95   |
| 2113551         | Amprobe HD160C        | DMM   | 11               | 9,999         | 100μV               | 1,000mV - 1500V       | 1,000mV - 1,000 V     | 100μA - 2A            | 100μA - 2A            | 1,000 - 40M           | 40nF - 400μF           |   | 100 - 10M             | -20 to 1300       | -4 to 2372   | ✓          |              | ✓               |                     | ✓         |                 |                     | ✓        | 7.9 x 4.0 x 2.3    | 2113551         | 299.95  | 284.95  |
| 220767          | Mastech MY68          | DMM   | 12               | 3260          | 100μV               | 326mV - 1000V         | 3.26V - 700V          | 326μA - 10A           | 326μA - 10A           | 326Ω - 32.6MΩ         | 326nF - 32.6μF         |   | 32.6k - 150k          | —                 | —            | ✓          |              | ✓               |                     | ✓         |                 | ✓                   | ✓        | 7.4 x 3.6 x 1.3    | 220767          | 44.95   | 39.95   |
| 192655          | Fluke 175             | DMM   | 12               | 6000          | 100μV               | 600mV - 1000V         | 600mV - 1000V         | 60mA - 10A            | 60mA - 10A            | 600Ω - 50MΩ           | 1000nF - 9999μF        | ↔ | 99.99 - 99.99k        | —                 | —            | ✓          |              | ✓               |                     | ✓         |                 | ✓                   | ✓        | 7.3 x 3.5 x 1.7    | 192655          | 249.95  | 239.95  |
| 2113560         | Amprobe 38XR-A        | DMM   | 12               | 10,000        | 100μV               | 1,000mV - 1000V       | 1,000mV - 750V        | 100μA - 10A           | 100μA - 10A           | 1,000 - 40M           | 40nF - 400μF           |   | 100 - 10M             | -20 to 1300       | -4 to 2372   | ✓          |              | ✓               |                     | ✓         |                 |                     | ✓        | 7.8 x 3.6 x 2.4    | 2113560         | 179.95  | 169.95  |
| 2112532         | Extech EX570          | DMM   | 12               | 40,000        | —                   | 0.1mV - 1000V         | 0.1mV - 1000V         | .1μA-20A              | .1μA-20A              | 0.01 - 40M            | .001nF - 10,000μF      |   | .0001Hz - 40MHz       | -45 to 750        | -50 to 1382  | ✓          | ✓            | ✓               | -                   | -         |                 |                     | ✓        | 7.25 x 3.25 x 2.25 | 2112532         | 249.95  | 234.95  |
| 185535          | Fluke 179†            | DMM   | 13               | 6000          | 100μV               | 600mV - 1000V         | 600mV - 1000V         | 60mA - 10A            | 60mA - 10A            | 600Ω - 50MΩ           | 1000nF - 9999μF        |   | 99.99 - 99.99k        | -40 to 400        | -40 to 752   | ✓          |              | ✓               |                     | ✓         |                 | ✓                   | ✓        | 7.3 x 3.5 x 1.7    | 185535          | 279.95  | 269.95  |
| 2113578         | Amprobe 35XP-A        | DMM   | 17               | 3,999         | 100μV               | 400mV - 1000V         | 400mV - 750V          | 400mV - 750V          | 400μA - 400mA         | 400 - 40M             | 4nF - 4mF              |   | 4k - 1M               | -20 to 1000       | -4 to 1832   | ✓          | ✓            | ✓               |                     |           |                 |                     | ✓        | 9.4 x 3.1 x 1.6    | 2113578         | 99.95   | 94.95   |
| 2113498         | Fluke-335A            | Clamp | 6                | 6,000         | 100μV               | 0 - 600V              | 0 - 600V              | —                     | 0 - 600A              | 0 - 6000              | —                      |   | —                     | -10 to 50         | -14 to 122   |            |              | ✓               |                     |           |                 |                     | ✓        | 9.4 x 3.1 x 1.6    | 2113498         | 229.95  | 219.95  |
| 373991          | Extech MA200          | Clamp | 7                | 2000          | 100μV               | 200mV - 600V          | 200mV - 600mV         | —                     | 2A - 400A             | 200Ω - 20MΩ           | —                      |   | —                     | —                 | —            |            |              | ✓               |                     |           | ✓               |                     |          | 7.9 x 2.0 x 1.4    | 373991          | 45.95   | 42.95   |
| 2094119         | Extech EX613          | Clamp | 9                | 40,000        | 10μV                | 0 - 600V              | 0 - 600V              | 400A                  | 400A                  | .01Ω - 40M            | 10pF - 40,000μF        |   | 40MHz max.            | -50 to 1000       | -58 to 1832  |            |              |                 |                     | ✓         |                 |                     | ✓        | 9.0 x 3.1 x 1.9    | 2094119         | 179.95  | 169.95  |
| 374070          | Extech MA220          | Clamp | 10               | 4000          | 100μV               | 400mV - 600V          | 400mV - 600V          | 40A - 400A            | 40A - 400A            | 400Ω - 40MΩ           | 40nF - 100mF           |   | 5 - 150k              | -50 to 1000       | -58 to 1830  | ✓          |              | ✓               |                     |           |                 |                     |          | 7.9 x 2.0 x 1.4    | 374070          | 99.95   | 89.95   |
| 1585881         | Extech EX830          | Clamp | 11               | 4000          | 100μV               | 0.1mV - 600V          | 0.1mV - 600V          | 100mA - 1000A         | 100mA - 1000A         | .01Ω - 40MΩ           | 0.001nF - 40000μF      |   | 0.001 - 4k            | -50 to 270        | -58 to 518   | ✓          |              | ✓               |                     |           |                 |                     | ✓        | 10.6 x 4.3 x 2.0   | 1585881         | 209.95  | 199.95  |

\* With non-contact voltage detector (100-600VAC range)





F of V: Field of View (Distance to target)

★ Web Code: EMT

| Part No. | Manufacturer | Mfr. Part No. | Description  | 1       | 5       |
|----------|--------------|---------------|--|---------|---------|
| 1537299  | Extech       | IR100         | Thermometer, Mini IR, measures temp. (-31 to 446°F) F of V 1:1   | \$39.95 | \$36.95 |
| 219361   | Extech       | IR-201        | Thermometer, Pocket IR w/ Laser Pointer, measures temp. (-58° to 518°F) F of V 6:1   | 59.95   | 56.95   |
| 2112541  | Extech       | 42510A        | Thermometer, wide range mini IR, 12:1 compact thermometer w/ laser pointer (-58 to -1200°F/-50 to -650°C) 12:1 Compact IR  | 99.95   | 94.95   |
| 214480   | Fluke        | FLUKE-52-2    | Thermometer, measures temp. large backlit dual display, dust splash resistant (-328° to 2501°F)  | 269.95  | 249.95  |
| 198045   | Extech       | 445703        | Thermometer, Digital Hygro/Humidity Meter w/ Indoor Readings, measures temp. (14° to 140°F) & RH (10-99%),   | 39.95   | 37.95   |
| 1939634  | Extech       | 445713        | Thermometer, Digital Hygro/Humidity Meter w/ Indoor & Outdoor Readings & Remote Sensor on 35' cable, temp. (14° to 140°F) & RH (10-99%)  | 44.95   | 39.95   |
| 218085   | Extech       | 45118         | Thermo-Anemometer, Mini, measures temp. (0° to 122°F) & air velocity (1.1 to 62.5mph)  | 99.95   | 89.95   |
| 1939731  | Extech       | RPM10         | Thermometer, IR & Tachometer, measures temp. (-4° to 600°F) & RPM: photo tach. (10 to 99,999 rpm), contact tach. (.5 to 19,999 rpm) & surface speed (.2 to 6560 feet/min or .05 to 1999.9 miles/min)         | 289.95  | 269.95  |
| 2112575  | Extech       | EA11A         | Thermometer, Type K, EasyView Series, Dual LCD, Single input with thermocoupler (-58 to 1999°F, -50 to 1300C)  | 89.95   | 84.95   |
| 2094266  | Extech       | DA50          | AC Current Detector, telescoping 3', non contact, 200-1000A @ 50/60Hz, for shielded and hidden wires   | 39.95   | 37.95   |
| 1585899  | Extech       | CB100         | AC Circuit Breaker Finder & Receptacle Tester, locates 110 to 125 volt AC circuits & fuses and has push button GFCI test   | 39.95   | 36.95   |
| 2094282  | Extech       | RT30          | AC Circuit Identifier, wireless remote, confirms correct circuit is open mid-wire, w/o having to connect directly to the wires   | 129.95  | 119.95  |
| 1581169  | Extech       | FG100         | Combustible Gas Leak Meter, detects: LNG, LPG from 500 to 6500 ppm   | 59.95   | 54.95   |
| 2094291  | Extech       | DT100         | Distance Meter, ultrasonic, laser pointer IDs targets from 20° to 50', calculates: sum of measurements, area and volume  | 39.95   | 36.95   |
| 2113463  | Fluke        | 1587          | Insulation Meter, True RMS, 1000V, CAT IV  | 624.95  | 599.95  |
| 2113501  | Fluke        | 411D          | Laser Distance Meter, 30m/100 ft, no backlight, 2xAAA batteries  | 109.95  | 104.95  |
| 131764   | Various      | LX-102        | Light Meter, Digital, ranges: LUX 0 to 50,000, footcandle 0 to 5,000   | 109.95  | 89.95   |
| 2112612  | Extech       | HD700         | Manometer, differential pressure meter, USB, software, 0-2 PSI, 11 UOM   | 179.95  | 169.95  |
| 2112567  | Extech       | 380260        | Megohmmeter, autoranging, digital, insulation test voltages, 250V, 500V, 1000V, insulation resis. 200MΩ, 2000MΩ, large display   | 229.95  | 214.95  |
| 1939642  | Extech       | 480836        | RF EMF Strength Meter, measures frequency (50MHz to 3.5GHz)  | 229.95  | 209.95  |
| 645642   | Extech       | 407730        | Sound Level Meter, Digital, decibel range (40dB to 130dB)  | 89.95   | 79.95   |
| 667526   | Fluke        | LVD1          | Voltage Detector & Flashlight, detects voltages from 40VAC to 300VAC, 1-15" away   | 22.95   | 19.95   |
| 2113594  | Fluke        | LVD2          | Voltage Detector & LED Flashlight, dual sense, 90-600V, CAT IV   | 31.95   | 30.95   |
| 2113535  | Fluke        | 1AC-A1-II     | AC Voltage Detector, 90-1000V, flat tip / English / LASPN / CFR  | 25.95   | 24.95   |
| 2113543  | Fluke        | 1LAC-A-II     | Low Voltage Detector, 20-90VAC, round tip, Americas / Pacific  | 25.95   | 24.95   |
| 2094274  | Extech       | DV50          | Voltage Detector, telescoping 3', non contact, 5-1000VAC @ 50/60Hz, for shielded and hidden wires  | 29.95   | 27.95   |
| 1537272  | Extech       | CT20          | Remote & Local Continuity Tester, drives a 20mA DC current pulse through wires & cables for test   | 29.95   | 26.95   |
| 115895   | BenchPro     | 251450        | UTP Ethernet Cable Tester, Tests: open circuit, shorts, & miswire, connector type: RJ45 8P8C, tests: AT&T Ethernet, 10Base-T, 258A, & 356A cables  | 34.95   | 29.95   |
| 1928468  | Vastech      | KT45          | Cable Tester for Network & CATV, auto test for continuity, miswires, shorts, open circuits, & reversals  | 29.95   | 24.95   |
| 145710   | BenchPro     | 145710        | Modular Cable Tester, tests 10Base-T, 10Base-2, RJ45/RJ11, 356A, TIA568A/568B, & Token Ring cables, tests: continuity, miswiring, open circuits, shorts, grounding & pin configurations, includes 4 adapters | 69.95   | 62.95   |
| 2112604  | Extech       | 480400        | Phase Sequence Tester, 40 to 600VAC rated test range for testing phase orientation of three phase power sources, graphical display   | 79.95   | 74.95   |
| 198002   | Extech       | 40180         | Tone Generator & Amplifier Probe, tests: wire trace, continuity, clear/busy/ringing line, & tip/ring ID  | 79.95   | 72.95   |
| 615136   | GC Elec      | 45-5767       | LAN test Network & Modular Cable Test, tests 10Base-T, 10Base-2, RJ45/RJ11, 356A, TIA568A/568B, & Token Ring cables  | 59.95   | 54.95   |
| 681504   | BK Prec      | 1253          | HDTV Portable Pattern Generator for: Plasma, LCD, TFT, CRT, DLP, GLV, & OLED digital systems   | 349.95  | 329.95  |
| 14285    | BenchPro     | RS232         | RS232 Line Tester, identifies simple interface problems on lines 2-6, 8, 11, 19, 20  | 7.95    | 6.95    |
| 26729    | BenchPro     | 31D3          | RS232 Mini Line Tester, tests any RS-232 (DB25) interface 7 bi-color LEDs indicate status  | 7.95    | 6.95    |
| 105196   | Various      | TRIPORT       | RS232 Signal Adapter/Splitter, metal connectors DB25 female/male & DB9 female gold plate DC contacts   | 8.95    | 7.95    |

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 197.



## Passive Component R/C SMD Tweezer Meter

One hand operation for fast, precise identification and measure of surface mount components.

- 4000 count LCD display
- Over range & low battery indicators
- Measures resistance, capacitance and diode test
- Relative mode for zero or user applied reference
- **Cap. range:** 4nF, 40nF, 400nF, 4µF, 40
- **Resis. range:** 400Ω, 4kΩ, 400kΩ, 4MΩ, 40MΩ



| Part No. | Mfr. Part No. | 1       | 5       |
|----------|---------------|---------|---------|
| 1939685  | RC100         | \$59.95 | \$54.95 |

\*Thermometers — Enter Web Code CEL

\*Cable Testers — Enter Web Code TBF



## Passive-Component Digital LCR Meter

- 4½-digit backlit LCD display
- Test frequencies of 120Hz and 1kHz
- Selectable parallel or series equivalent circuit
- **Res. ranges:** 20Ω to 10MΩ
- **Cap. ranges:** 2000pF to 10mF
- **Induc. ranges:** 2000µH to 10,000H
- Quality (Q) reading: 0 to 9999
- Set HI/LO limits, absolute or percentage
- Bidirectional RS-232 port with optional software
- Max./Min./Avg. recording with auto power off
- Accuracy of 0.7% for L & C, 0.5% for R
- Dissipation Factor (D) reading: 0 to 0.9999
- Measures L, C & R w/ secondary parameter Q, D or R; both are displayed
- Size: 3.6"W x 2.1"D x 7.6"H • Weight: 0.8 lbs.



**Includes:** Test leads, alligator clips, 9V battery & holster

| Part No. | Description             | 1        | 5        |
|----------|-------------------------|----------|----------|
| 198678   | LCR Meter               | \$199.95 | \$189.95 |
| 189238   | 9VDC adapter for 198678 | 5.95     | 5.35     |



## Electronic Starter Kit

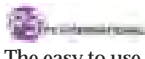


This kit includes everything you need to get started with electronics.

**Includes one of each:**

- 8 function 20K count DMM (P/N 318764)
- 6.5" x 3.125" breadboard (P/N 20758)
- Wire cutter (P/N 35482)
- Wire stripper (P/N 127862)
- 11-pc. precision screwdriver set (P/N 226094)
- Soldering iron (P/N 129040) and stand (P/N 36329)
- Solder (P/N 170457) • Hook up wire (P/N 126085)
- Jumper wire kit (P/N 2096018)
- Electrical tape (P/N 285587)
- Assorted capacitors (P/N 17911) and resistors (P/N 134130)

| Part No. | Description            | 1       | 5       |
|----------|------------------------|---------|---------|
| 2099171  | Electronic Starter Kit | \$99.95 | \$89.95 |



## Camera Detector

The easy to use P3 camera detector fits in the palm of your hands.

Discreet sweeps of the home, office, or hotel room can be done quickly and efficiently. When a camera is discovered, an LED flickers and an audible alarm sounds

- Auto sensitivity tuner
- Detects frequencies from 50Hz to 3GHz
- Multi-channel scanning • Audible LED alarm
- Power requirements: 2 CR2032 batteries (included)
- Size: 3.25"L x 0.75"W x 0.25" thick



| Part No. | Mfr. Part No. | 1       | 10      |
|----------|---------------|---------|---------|
| 2096157  | P7030         | \$29.95 | \$26.95 |



## Kill A Watt™ Energy Consumption Meters

Measures how much energy appliances consume. Simply connect appliances to the Kill A Watt™, and it will assess how efficient they really are. Counts consumption by the kilowatt-hour, same as your local utility. You can calculate your electrical expenses by the day, week, month, even an entire year. Also check the quality of your power by monitoring voltage, line frequency and power factor.

- Forecast your costs
- Displays volts, amps, watts and Hz
- Max. current: 15A
- Operating voltage: 115VAC
- Max. power: 1875VA
- Large LCD display
- 0.2% accuracy

2075954: Displays usage in dollars

| Part No. | Mfr. Part No. | Measures | 1       | 5       |
|----------|---------------|----------|---------|---------|
| 2075946  | P4400         | 8        | \$22.49 | \$19.95 |
| 2075954  | P4460EZ       | 10       | 39.95   | 36.95   |



## 50mV/50A Current Shunt

- Current range: 0 to 50A
- Accuracy: 0.8% ±0.2mV
- Output ratio: 1mV/1A
- Max. current: 100A



| Part No. | Product No. | 1       | 5       | 25      |
|----------|-------------|---------|---------|---------|
| 162309   | ST-50       | \$25.95 | \$23.95 | \$21.95 |

Data Sheets Are Available  
for Most of the Products We Carry.  
Find Them Easily on the  
Product Specification Page.



[www.Jameco.com](http://www.Jameco.com)



## USB Data Loggers



- Measures and stores up to 32,000 readings
- User programmable alarm thresholds
- Data can be graphed, printed, and exported to other applications
- Temp. range: -31°F to 176°F
- High & low alarms, start date/start time
- Windows® 98/2000/XP/Vista compatible software included

2076367: Temperature, humidity & dew point data logger

- 2½-digit LCD display
- Data logger set-ups: logger name, °F/°C, logging rate (10 seconds to 12 hours)
- Pushbutton to start
- Relative humidity range: 0 to 100% RH

2075989: Temperature data logger

- Data logger set-ups: logger name, °F/°C, logging rate (10s to 12 hrs)

2076412: Standalone data logger

- Immediate, delayed and push-to-start mode
- High contrast LCD shows last, high and low stored readings

2113181: Temperature & relative humidity logger

- Measurement Range: -20 to +70°C; 0 to 100% RH
- User-Programmable Alarm Thresholds for T & RH%

2076404: Carbon monoxide data logger

- CO measurement range: 0 to 1000 ppm
- LED and buzzer alert when warning level is exceeded

| Part No. | Mfr. Part No. | 1       | 5       |
|----------|---------------|---------|---------|
| 2076367  | EL-USB-2-LCD  | \$99.95 | \$89.95 |
| 2075989  | EL-USB-1      | 54.95   | 49.95   |
| 2076412  | EL-USB-TC-LCD | 99.95   | 89.95   |
| 2113181  | EL-USB-RT     | 85.95   | 79.95   |
| 2076404  | EL-USB-CO     | 96.95   | 89.95   |



## Humidity/Temperature Data Logger

- Simultaneous numerical and graphical LCD display of humidity and temperature readings, plus time and date
- Measures humidity (10 to 95% RH), temperature (-20°F to 140°F) plus included LabView™ based software that calculates and graphs dew point, wet bulb and GPP (grains per pound)
- Internal memory records up to 49,000 data points & can be transferred to a PC via RS-232 serial port

**Includes:** Built-in stand, detachable probe with 1m (3ft.) cable, RS-232 cable, USB adapter, LabView based software, AC adapter, and 3 AA batteries

| Part No. | Mfr. Part No. | 1        | 5        |
|----------|---------------|----------|----------|
| 2075866  | RH520A        | \$199.95 | \$189.95 |



\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above



## 3-in-1 Multimeter and Cable/Line Tester

- 2000 count LCD display (15mm display size) w/ automatic polarity indication and white backlight
- Continuity and diode test
- **DC voltage ranges:** 0.2 to 1000V
- **AC voltage ranges:** 0.2 to 700V
- **DC current ranges:** 200µA to 10A
- **AC current ranges:** 200µA to 10A
- Size: 3.3"W x 1.1"D x 7.3"H
- Weight: 1.4 lbs.

**Includes:** 9V battery, test leads, remote box for cable testing, and users manual

| Part No. | Mfr. Part No. | 1       | 5       |
|----------|---------------|---------|---------|
| 1955984  | DVM1000       | \$79.95 | \$74.95 |



## 20MHz/30MHz 2-Channel Analog Oscilloscopes

- 6" rectangular screen with internal graticule and scale
- Vertical deflection: 1mV/div to 1V/div (5MHz, 3dB) x 5 (P/N 685311); (10MHz, 3dB) x 5 (P/N 2112823) gain selected
- Horizontal deflection: 0.1µs/div to 2.0s/div in 1-2-5 sequence, 23 steps
- Max. input voltage: 400V (DC + AC peak)
- Input volt.: 115/230VAC with line voltage selector
- ADD function measures sum of 2 signals (P/N 685311)
- Size: 12.8"W x 15.7"D x 5.2"H • Weight: 16.8 lbs.

**Includes:** 2 (X1/X10) test probes, power cord & manual

| Part No. | Mfr. Part No.  | 1        | 5        |
|----------|----------------|----------|----------|
| 685311   | SK0200 (20MHz) | \$429.95 | \$399.95 |
| 2112823  | SK0300 (30MHz) | 499.95   | 459.95   |



## 100MHz Analog Oscilloscope

- 2-channel dual trace
- Auto focusing according to intensity
- Delay line
- Weight: 22.8 lbs.
- Two-year warranty
- Size: 16.9"L x 12.6"W x 5.5"H

**Includes:** Two (X1/X10) 100MHz probes, power cord, and operations manual

| Part No. | Mfr. Part No. | 1        | 5        |
|----------|---------------|----------|----------|
| 121179   | OS5100        | \$999.95 | \$965.95 |



**EZ DIGITAL**

## 3-in-1 Lab Center

### Digital Multimeter:

- 3½-digit backlit LCD
- Automatic polarity indication
- **DC voltage ranges:** 200mV to 600V
- **AC voltage ranges:** 200V to 600V
- **DC current ranges:** 200µA to 10A
- **Resistance ranges:** 200Ω to 2MΩ
- Diode, transistor and continuity tester

### Regulated Power Supply:

- Selectable output volts: 3 to 4.5; 6 to 7.5; 9 to 12VDC
- Output current: 1.5A (2A peak)
- On/off switch

### Soldering Station:

- 48W ceramic heating element with temp. sensor
- 24V soldering iron
- Temperature range: 150° to 450°C

**Includes:** Test leads, user manual, sponge, spare bit for soldering iron and 9V battery for DMM

| Part No. | Mfr. Part No. | 1        | 5        |
|----------|---------------|----------|----------|
| 695025   | LAB1U         | \$159.95 | \$139.95 |



## 4000-Count True-RMS Benchtop Multimeter with RS-232

- 9 functions, 32 ranges
- 3½-digit backlit LCD display with bargraph
- Auto/manual ranging
- True RMS AC volts and amps
- Resolution: 100µV maximum
- **DC voltage ranges:** 400mV – 1000V (0.3% accuracy)
- **AC voltage ranges:** 4V – 750V
- **DC/AC current ranges:** 4mA – 10A
- **Resistance ranges:** 400Ω – 40MΩ
- **Capacitance ranges:** 4nF – 40µF
- **Frequency ranges:** 100Hz – 600kHz
- Diode and continuity test • Delay hold mode
- Min., max., and relative hold function
- Input voltage: 9V battery or 90-132VAC/198-264VAC @ 50-60Hz • Weight: 3.3 lbs.
- Size: 9.0"W x 9.4"D x 3.3"H • Two-year warranty

**Includes:** Manual, test leads, power adapter, 9V battery, RS-232 cable & software (98/ME/2000/XP compatible)

| Part No. | Mfr. Part No. | 1        | 5        |
|----------|---------------|----------|----------|
| 230586   | B940          | \$179.95 | \$169.95 |



**Protok**

## 150MHz 2-Channel Digital Oscilloscope

- USB Interface & SD card supported
- Bandwidth (~3dB): 150MHz
- Real-time sample rate: 1GSa/s real-time sample rates maximum, 25GSa/s
- 2-channels with 8-bit vertical resolution
- 2Mega point record length
- Auto set vertical, horizontal, and trigger level
- Vertical sensitivity: 2mV/div – 10V/div
- Input voltage: 100-240VAC @ 48-63Hz
- Time base range: 1ns/div – 50s/div
- Trigger sensitivity: DC-25MHz: 0.5div or 5mV
- 25MHz – 150MHz: 1.5div or 15mV
- Frequency counter: 6 digits
- Size: 12.2"W x 5.6"H x 5.5"D • Weight: 5.5 lbs.

**Includes:** BNC cable, power cord & oper. manual

| Part No. | Mfr. Part No. | Price      |
|----------|---------------|------------|
| 2118491  | GDS-1152A     | \$1,099.95 |



**NEW**  
MARKED IN PINK

## 50MHz Digital PC-Based Oscilloscope, Spectrum Analyzer and Transient Recorder

- Sampling frequency: 1.25kHz – 50MHz real-time; 1GHz repetitive
- Input impedance: 1MΩ/30pF
- Parallel port interface
- Inputs: 2 channels, 1 external trigger input
- Max. input voltage: 100V AC/DC
- Power required: 9V to 10V @ 100mA (recommend P/N 364576, pg 124)

### Oscilloscope:

- Time base: 20ns–100ms per division
- Input sensitivity: 5mV–15V per division with auto step-function
- Recording length: 4096 samples per channel

**Spectrum Analyzer:** • Frequency range: 0 to 25MHz

**Transient Recorder:** • Time scale: 20ms/div–2000s/div

- Max. recording time: 9.4 hours/screen
- Max. number of samples: 100/s

**System Requirements:** IBM compatible PC, Windows® 95/98/ME, SVGA card, mouse, printer port, CD-ROM

**Includes:** 2 Test leads, parallel cable and CD-ROM

• Blue Part No. = Limited Quantity Available

| Part No. | Mfr. Part No. | 1        | 5        |
|----------|---------------|----------|----------|
| 200184   | PCS500AU      | \$349.95 | \$329.95 |



**\* Web Code: RCG**

**\* Oscilloscopes Available Online — Enter Web Code RCG**

## 2000-Count Multimeters

- Resolution: 100µV max.
- **DC voltage ranges:** 200mV – 1000V
- Size: 7.5"W x 9.6"D x 2.5"H
- Weight: 2.6 lbs.

### 203801: 3½-Digit – 2A

- **DC/AC current ranges:** 20µA – 2A
- **AC voltage ranges:** 200mV – 700V
- **Resistance ranges:** 200Ω – 20MΩ
- **Conductance ranges:** 2µS – 200nS

### 160830: 3½-Digit – 10A

- **DC/AC current ranges:** 20µA – 10A
- **AC voltage ranges:** 200mV – 700V
- **Resistance ranges:** 200Ω – 20MΩ
- **Conductance ranges:** 2µS – 200nS

### 421542: 3½-Digit – 2A

- **DC/AC current ranges:** 200µA – 2A
- **AC voltage ranges:** 200mV – 750V
- **Resistance ranges:** 200Ω – 20MΩ
- **Conductance ranges:** 2mS – 200nS
- **Frequency ranges:** 20Hz – 50kHz

♣ Refurbished = Backed by Jameco

| Part No. | Mfr. Part No. | 1        | 5        |
|----------|---------------|----------|----------|
| 160830   | 8010A♣        | \$169.95 | \$149.95 |
| 203801   | 8012A♣        | 169.95   | 149.95   |
| 421542   | 8050A♣        | 239.95   | 224.95   |



**FLUKE**

**Limited Supply – Great Price!**

## 5MHz Handheld Digital Oscilloscope with True-RMS Multimeter

- Record length: 512 single shot, 256 all other functions
- Sample mode: single shot, roll, normal
- Vertical sensitivity: 50mV max.
- Input volt.: 600VDC or AC<sub>RMS</sub> max.
- Input impedance: 1MΩ
- Sampling time: 25MS/s dual ch.; 50MS/s single ch.
- USB PC interface and software for transferring waveforms and data
- Resolution: 100µV max.
- **DC voltage ranges:** 0.1mV to 1000V
- **AC (TRMS) voltage ranges:** 0.1mV to 750V
- **Resistance ranges:** 0.001kΩ to 5MΩ
- **Frequency ranges:** 0.01Hz to 10MHz
- **RPM ranges:** 240 to 60,000 RPMs
- Size: 3.5"W x 1.8"D x 7.7"H

**Includes:** Test leads, alligator clips, Ni-MH battery pack, AC adapter/charger, RS-232 cable, holster & carrying case

| Part No. | Mfr. Part No. | 1        | 5        |
|----------|---------------|----------|----------|
| 2112639  | 381295A       | \$499.95 | \$474.95 |



**EXTECH**





## 50MHz 2-Channel USB PC Oscilloscope

The PCSU1000 digital storage oscilloscope uses the power of your PC to visualize electrical signals. It has a highly sensitive display resolution, down to 0.15mV, combined with a high bandwidth and a sampling frequency of up to 1GHz.

### Oscilloscope:

- Input range: 5mV to 2V/division
- Time base: 20ns to 100ms per division
- Trigger source: CH1, CH2, EXT or free run
- Real time sampling frequency: 1.25kHz to 50MHz

### Spectrum Analyzer:

- Frequency range: 1.2kHz to 25MHz
- FFT resolution: 2048 lines
- FFT input channel: CH1 or CH2

### Transient Recorder:

- Timescale: 20ms/Div to 2000s/Div
- Max record time: 9.4 hour/screen
- Min./Max. number of samples: 20/s; 100/s

**System Requirements:** IBM compatible PC, Windows® 98SE or later, SVGA display card, USB port

**Includes:** PC oscilloscope, 2 x 60MHz scope probes, USB cable and CD-ROM

| Part No. | Mfr. Part No. | 1        | 5        |
|----------|---------------|----------|----------|
| 695017   | PCSU1000      | \$499.95 | \$459.95 |

\* Web Code: RCG

## 40MHz Multifunction Oscilloscopes w/ Built-In 5MHz Function Generator

### Oscilloscope:

- 6" rectangle high resolution CRT
- Max signal input volt.: 400V (DC and AC peak)
- Input voltage: 100/120/220/240VAC @ 50-60Hz
- Size: 15.7"L x 12.8"W x 5.2"H • Weight: 26 lbs.
- Two-year manufacturer's warranty

**1586200:** With built-in 60MHz auto-detect counter

### Function Generator:

- Frequency range: 0.5Hz to 5MHz (6 ranges)
- Output waveforms: sine, triangle, square
- Output impedance: 50Ω
- Output volt: 20Vp-p (no load), 10Vp-p (w/ 50Ω load)
- See [www.jameco.com](http://www.jameco.com) for additional specs.

| Part No. | Mfr. Part No. | 1        | 5        |
|----------|---------------|----------|----------|
| 1536886  | SK0404        | \$599.95 | \$539.95 |
| 1586200  | SK0409        | 749.95   | 699.95   |

## 3MHz Function Generator with Positive and Negative Pulses

- 6 waveforms: sine, square, triangle, ramp, positive pulse and negative pulse
- Input voltage: 110VAC
- Output impedance: 50Ω ±2%
- Knob selector switches for waveforms and frequency ranges
- Frequency range: 0.5Hz to 3MHz in 6 ranges via rotary switch
- Size: 10.5"W x 11.2"D x 3.9"H
- Weight: 6.6 lbs.

| Part No. | Mfr. Part No. | 1        | 5        |
|----------|---------------|----------|----------|
| 685329   | SK3000        | \$209.95 | \$189.95 |

\*Function Generators — Enter Web Code DEJ

\*Frequency Counters — Enter Web Code VCG

## 5MHz Function Generator

- Waveforms: sine, square, triangle and ramp
- 0.5 to 5MHz
- 100% DC offset
- Variable duty cycle
- Output impedance: 50Ω
- Coarse and fine tuning
- Size: 10.4"W x 11.7"D x 3.4"H
- Weight: 6.2 lbs. • Two-year warranty

| Part No. | Mfr. Part No. | 1        | 5        |
|----------|---------------|----------|----------|
| 160469   | BK4011A       | \$369.95 | \$349.95 |

## 2MHz & 3MHz Function Generators w/ Frequency Counter

### Function Generator

- Waveforms: sine, triangle, square, TTL and CMOS output
- Output amplitude: >10Vp-p into 50Ω load
- Output impedance: 50Ω ±10%
- DC offset range: <-5V to >+5V into 50Ω load

### Frequency Counter

- Input voltage: 115/230VAC @ 50-60Hz
- Weight: 4.4 lbs. • Two-year warranty
- 229251: • 4-digit LCD display
- Ranges: 0.2Hz to 2MHz • Size: 9.1"W x 11.0"D x 3.7"H
- 229260: • 6-digit LCD display with ramp
- Ranges: INT/EXT switch, 0.3Hz to 3MHz internal and 5Hz to 150MHz external; resolution of 10Hz to 0.1Hz
- Size: 9.9"W x 11.5"D x 3.6"H

**Includes:** Power cord, operations manual and leads

| Part No. | Mfr. Part No. | Description | 1        | 5        |
|----------|---------------|-------------|----------|----------|
| 229251   | GFG-8020H     | 2MHz        | \$249.95 | \$229.95 |
| 229260   | GFG-8216A     | 3MHz        | 299.95   | 269.95   |

## 150MHz 2-Channel

## Universal Frequency Counter

- 8-digit green LED display (0.56" digit height)
- Adjustable range & gate time
- Freq. range: 0.2Hz ~ 150MHz
- Gate time range 0.01s ~ 10s
- Impedance: 1MΩ, <40pF
- Channel A sensitivity ~ 25mVrms: 0.2Hz ~ 100MHz, 50mVrms: 100MHz ~ 150MHz; channel B ~ 25mVrms: 0.2Hz ~ 100MHz
- Count capacity: 0 ~ 99999999 (MHz)
- Input voltage: 100/220 @ 50/60Hz
- Size: 10.0"W x 3.2"H x 10.3"D

| Part No. | Mfr. Part No. | 1        | 5        |
|----------|---------------|----------|----------|
| 2112840  | FC-150U       | \$299.95 | \$279.95 |

## 2.4GHz 2-Channel Frequency Counter

- 8-digit green LED display with annunciators
- Adjustable range & gate time
- Frequency ranges: 0.01Hz to 2.4GHz
- Gate time: 100msec to 10sec
- Channel A: DC coupled ~ 0.01Hz to 100Hz; AC coupled ~ 100Hz to 50MHz, sensitivity ~ 80mVrms, 1MΩ impedance
- Channel B: frequency range: 50MHz to 2.4GHz, sensitivity ~ 50mVrms, 50Ω impedance
- Power supply: 120 to 220VAC
- Size: 10.6"W x 8.5"D x 3.9"H • Weight: 3.5 lbs.

| Part No. | Mfr. Part No. | 1        | 5        |
|----------|---------------|----------|----------|
| 1955968  | DVM13MFC2U    | \$159.95 | \$149.95 |

## 5MHz Sweep Function Generator with 60MHz Counter

### Function Generator

- Waveforms: triangle, sine, square, ramp, positive pulse, negative pulse
- Frequency range and display: 0.05Hz ~ 5MHz, 5-digit LED display (0.001Hz resolution)
- 8 ranges controlled by rotary switch
- DC offset ±10V (no load), ±5V (50Ω load) continuously adjustable controlled by offset switch

### Frequency Counter:

- 5-digit LED display (0.36" digit height)
- Resolution: 0.001Hz
- Display unit: Hz/kHz (auto) • 20MHz time base
- INT/EXT switch, 0.500Hz to 5000KHz internal with 4 res., 0.2Hz ~ 60MHz external
- Size: 11.8"W x 3.5"H x 10.8"D • Weight 5.5 lbs.
- Includes: power cord and operation manual

| Part No. | Mfr. Part No. | 1        | 5        |
|----------|---------------|----------|----------|
| 2112831  | SK5200        | \$299.95 | \$279.95 |

## 60/100/250MHz Modular Oscilloscope Probes



- Hook and pointed probes
- Maximum input volt.: 600V
- Length: 5'
- Alligator clip ground wire
- BNC male connector
- 216047/236777: With IC test ground cover and spring ground contact

\* Web Code: RAC

| Part No. | Bandwidth (±3dB) |        | Impedance (R/C) * |           |
|----------|------------------|--------|-------------------|-----------|
|          | Attenuation      |        | Attenuation       |           |
|          | x1               | x10    | x1                | x10       |
| 22892    | 6MHz             | 60MHz  | 1MΩ/180pF         | 10MΩ/22pF |
| 216047   | 6MHz             | 100MHz | 1MΩ/47pF          | 10MΩ/16pF |
| 236777   | 6MHz             | 250MHz | 1MΩ/47pF          | 10MΩ/14pF |

\* With 20pF oscilloscope input

| Part No. | Product No. | 1       | 5       | 25      |
|----------|-------------|---------|---------|---------|
| 22892    | LF101E      | \$24.95 | \$22.49 | \$19.95 |
| 216047   | HF-9100     | 29.95   | 26.95   | 23.95   |
| 236777   | HP-9250     | 39.95   | 35.95   | 31.95   |

## 150/250MHz Oscilloscope Probes

Designed for use with Tektronix and Hewlett Packard oscilloscopes.

- 3 position switch: x1, ref, x10
- Bandwidth @ 3dB: 10MHz (x1); 150MHz (x10)
- Loading: 57pF, 1MΩ (x1); 15pF, 10MΩ (x10)
- Low-resistance gold contacts
- Cord length: 5'

**174473:** 7-piece kit

**212257:** 25-piece kit

| Part No. | Mfr. Part No.    | 1       | 5       |
|----------|------------------|---------|---------|
| 174473   | 4901-02 (150MHz) | \$59.95 | \$53.95 |
| 212257   | 4915A (250MHz)   | 159.95  | 144.95  |

\* More Probes Available Online — Enter Web Code RAC

\* For Complete Specs & Additional Product Listings Search [www.jameco.com/More](http://www.jameco.com/More) and Enter Web Code Listed Above

## Pomona 100MHz Probe Set

- Complete accessory kit included
- Compensation range: 10-60pF
- Bandwidth: 15/100MHz (-3dB)
- Attenuation: x1/x10 • 48" cable
- Rise time: 23.33/3.5ns
- Input resistance: 1/10MΩ • Capacitance: 64/10.5pF

| Part No. | Mfr. Part No.  | 1       | 5       |
|----------|----------------|---------|---------|
| 156451   | 4550B (100MHz) | \$56.95 | \$53.95 |

## PROBE MATTER 1000 Volt Probe Kit

- Rating: 1000V 10A
- Gold tips and contacts
- Electronic deluxe probe kit includes leads with shrouded right angle banana plug, probes, sprung hook probes, alligator clips, spade lugs, extender probes, minigator leads, .025" wire wrap leads, pico hooks and pincer hooks

| Part No. | Description             | 1       | 5       |
|----------|-------------------------|---------|---------|
| 212249   | High voltage test probe | \$74.95 | \$71.95 |

## DV3100 Digital Logic Analyzer

From a new aluminum case to advanced triggering, adjustable threshold, more memory and a wider voltage range, the new DV3100 is the best value in a portable logic analyzer.

- 18 channels @ 100MHz (10ns)
- Automatic real time hardware compression (Tri-mode) • Eliminates res. vs. depth tradeoffs
- +0.5 to +2.8V adjust. threshold
- Ground current protection ±12V
- USB 2.0 & 1.1 compatible

**Includes:** All cables, clips (quantity 20) and software

| Part No. | Mfr. Part No. | 1        | 5        |
|----------|---------------|----------|----------|
| 2115776  | DV3100        | \$499.95 | \$469.95 |

## High Voltage Test Probe

- Maximum voltages: DC:40kV, AC: 40kV peak, 28kVrms
- Accuracy: DC:±1.5%, AC:±5%
- 10MΩ meter input impedance required
- Input/output impedance: 1,000MΩ/1.1MΩ
- Probe length: 14" • Cable length: 39"

| Part No. | Product No. | Weight   | 1       | 5       | 25      |
|----------|-------------|----------|---------|---------|---------|
| 132290   | HV-40       | 0.8 lbs. | \$79.95 | \$73.95 | \$69.95 |

## 17MHz Logic Pulser

- Compatible with TTL, DTL and CMOS ICs
- Pulse repetition rate: 0.5pps/400pps
- 1MΩ sync input impedance
- Pulse width output at 100mA load: 10μs
- Pulse mode output current: 10mA
- Square wave current output: 5mA
- "One shot" or continuous 5Hz pulse train

★ Web Code: MAQ

| Part No. | Product No. | 1       | 5       | 25      |
|----------|-------------|---------|---------|---------|
| 24601    | LP540H      | \$29.95 | \$26.95 | \$23.95 |

## 108-Watt Desktop Power Supply

- Load reg.: ±2%
- Input volt.: 88 132VAC/176-264VAC @ 47-63Hz (switch selectable)
- Ripple and noise max.: 120mVp-p
- Line regulation: ±5% • Efficiency (typical): 81%
- Vol. adjustment range: 12VDC to 15VDC
- Front panel on/off switch and 3 color LED loading indicator • Size: 5.9"W x 5.5"D x 3.3"H
- Short-circuit/overload/ overvoltage/overtemperature protection • Weight: 3.3 lbs.
- Back panel 3-prong AC receptacle and banana plugs

| Part No. | Mfr. Part No. | 1       | 5       |
|----------|---------------|---------|---------|
| 673230   | ESP-120-13.5  | \$49.95 | \$44.95 |

## 17MHz Logic Probe

- Max input freq.: 17MHz
- Minimum pulse width: 30ns
- Pulse flash time: 500ms
- Audible tones for high & low
- Input impedance: 1MΩ
- Power supply protection: ±20V
- TTL threshold: Lo = 0.8V ±0.2V, Hi = 2.3V ±0.2V
- CMOS threshold: Lo = 30% VCC, Hi = 70% VCC

| Part No. | Product No. | 1       | 5       | 25      |
|----------|-------------|---------|---------|---------|
| 149930   | LP3500      | \$39.95 | \$35.95 | \$32.95 |

## PC Cable-Check® Pro

This powerful universal cable tester troubleshoots and maps 20 types of computer cables for opens, shorts, crosses, and good connections. Tests any combination of D-sub 9-pin, D-sub 15-pin, D-sub 25-pin, Centronics 36-pin printer, USB-A and USB-B, Mini USB, PS/2, RJ-11, RJ-45, BNC female-female cables and Firewire.

- Auto power off, auto & manual scan

**Includes:** 9V battery

**Paladin Tools®**

| Part No. | Mfr. Part No. | 1        | 5        | 25       |
|----------|---------------|----------|----------|----------|
| 652480   | 1577          | \$185.95 | \$169.95 | \$159.95 |

## 90-Watt Digital DC Power Supply

- 30V @ 3A
- Input voltage: 110/220VAC @ 50-60Hz
- Resolution: 1% ±1 digit accuracy
- Constant volt. and current operation
- Size: 5.1"W x 10.1"D x 5.9"H

| Part No. | Product No. | 1        | 5        |
|----------|-------------|----------|----------|
| 489184   | DRP-303D    | \$199.95 | \$189.95 |

★ Web Code: SAX

## Single Output Benchtop Power Supplies

| Part No. | Mfr.    | Mfr. Part No. | Voltage (VDC)/Current (A) | Power (W) | Displays (Digits) | Input Voltage (VAC) | Short Circuit Protection | Overload Protection | Size (W" x H" x D") | Weight (lbs.) | Pricing         |
|----------|---------|---------------|---------------------------|-----------|-------------------|---------------------|--------------------------|---------------------|---------------------|---------------|-----------------|
| 301920   | Mastech | HY1503C       | 15/3                      | 45        | 2-Analog          | 115/230 ±10%        | Y                        | N                   | 3.8 x 6.3 x 9.1     | 9             | \$99.95 \$89.95 |
| 175257   | Various | DPS150A       | 15/10                     | 150       | 2-Analog          | 110 @ 60Hz          | Y                        | Y                   | 6.2 x 4.0 x 5.7     | 12            | 149.95 129.95   |
| 175265   | Various | SPS250A       | 15/15                     | 225       | 2-Analog          | 110/220 @ 47-63Hz   | Y                        | Y                   | 6.2 x 4.0 x 5.6     | 3.8           | 149.95 129.95   |
| 681221   | Extech  | 382202        | 18/3                      | 54        | 2-Digital LCD (4) | 120 @ 60 Hz         | Y                        | Y                   | 9.4 x 6.1 x 4.3     | 6.6           | 139.95 129.95   |
| 645600   | Extech  | 382200        | 30/1                      | 30        | 2-Digital LCD (4) | 100/240 @ 47-63Hz   | Y                        | Y                   | 9.4 x 6.1 x 4.3     | 4.4           | 129.95 119.95   |
| 301971   | Lascar  | PSU130        | 30/1                      | 30        | 2-Digital LCD (4) | 100/240 @ 47-63Hz   | Y                        | Y                   | 5.5 x 1.6 x 5.2     | 1.2           | 89.95 84.95     |
| 301866   | Mastech | HY3003D       | 30/3                      | 90        | 2-Digital LCD (4) | 115/230 ±10%        | Y                        | N                   | 5.4 x 6.2 x 11.5    | 10            | 159.95 135.95   |
| 207618   | Mastech | HY3005C       | 30/5                      | 150       | 2-Analog          | 115/230 ±10%        | Y                        | N                   | 5.4 x 6.2 x 11.5    | 14            | 159.95 135.95   |
| 301911   | Mastech | HY3005D       | 30/5                      | 150       | 2-Digital LCD (4) | 115/230 ±10%        | Y                        | N                   | 5.4 x 6.2 x 11.5    | 13            | 199.95 179.95   |
| 2112858  | SKMI    | LP-3010       | 30/10                     | 300       | 1-Digital LED (3) | 115 @ 50Hz          | Y                        | Y                   | 9.3 x 5.4 x 13.6    | 26.5          | 599.95 549.95   |
| 207626   | Mastech | HY3010C       | 30/10                     | 300       | 2-Analog          | 115/230 ±10%        | Y                        | N                   | 10.4 x 6.5 x 14.4   | 31            | 299.95 269.95   |
| 207635   | Mastech | HY3010        | 30/10                     | 300       | 2-Digital LED (4) | 115/230 ±10%        | Y                        | N                   | 10.4 x 6.5 x 14.4   | 31            | 319.95 289.95   |
| 207686   | Mastech | HY3020        | 30/20                     | 600       | 2-Digital LED (4) | 115/230 ±10%        | Y                        | N                   | 10.4 x 6.5 x 14.4   | 42            | 499.95 449.95   |
| 1939626  | Extech  | 382290        | 30/30                     | 900       | 2-Digital LED (4) | 110-240 @ 50-60Hz   | Y                        | Y                   | 9.8 x 3.8 x 13.4    | 13.2          | 749.95 699.95   |
| 207694   | Mastech | HY5002        | 50/2                      | 100       | 2-Digital LED (4) | 115/230 ±10%        | Y                        | N                   | 5.4 x 6.2 x 11.5    | 13            | 149.95 134.95   |
| 163723   | Various | DPS-3050      | 50/3                      | 150       | 2-Analog          | 110 @ 60Hz          | Y                        | Y                   | 4.8 x 7.5 x 9.0     | 12.3          | 129.95 115.95   |
| 207706   | Mastech | HY5003        | 50/3                      | 150       | 2-Digital LED (4) | 115/230 ±10%        | Y                        | N                   | 5.4 x 6.2 x 11.5    | 13            | 199.95 179.95   |
| 207600   | Mastech | HY5005        | 50/5                      | 250       | 2-Digital LED (4) | 115/230 ±10%        | Y                        | N                   | 10.4 x 6.5 x 14.4   | 17            | 279.95 249.95   |
| 175249   | Various | DPS5050       | 50/5                      | 250       | 2-Analog          | 110 @ 50-60Hz       | Y                        | Y                   | 7.7 x 6.7 x 4.9     | 13.8          | 179.95 159.95   |

- Voltage and current adjustable

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 197.

## Multiple Output Benchtop Power Supplies

★ Web Code: SAX



• Voltage and current adjustable

| Part No. | Mfr.    | Mfr. Part No. | Voltage (VDC)/<br>Current (A) | Power<br>(W) | Input Voltage       | Displays          | Short Circuit<br>Protection | Overload<br>Protection | Size<br>(W" x H" x D") | Weight<br>(lbs.) | Pricing  |          |
|----------|---------|---------------|-------------------------------|--------------|---------------------|-------------------|-----------------------------|------------------------|------------------------|------------------|----------|----------|
|          |         |               |                               |              |                     |                   |                             |                        |                        |                  | 1        | 5        |
| 211722   | Mastech | HY3002-2A     | 0-30/2; 0-30/2                | 120          | 115/230 ±10%        | 2-Digital LED     | Y                           | N                      | 10.4 x 6.5 x 14.4      | 23               | \$219.95 | \$199.95 |
| 211705   | Mastech | HY3002D-2     | 0-30/2; 0-30/2                | 120          | 115/230 ±10%        | 4-Digital LCD     | Y                           | N                      | 10.4 x 6.5 x 14.4      | 23               | 239.95   | 219.95   |
| 211693   | Mastech | HY3003D-2A    | 0-30/3; 0-30/3                | 180          | 115/230 ±10%        | 4-Digital LCD     | Y                           | N                      | 10.4 x 6.5 x 14.4      | 28               | 299.95   | 269.95   |
| 211731   | Mastech | HY3003-2A     | 0-30/3; 0-30/3                | 180          | 115/230 ±10%        | 2-Digital LED     | Y                           | N                      | 10.4 x 6.5 x 14.4      | 28               | 299.95   | 269.95   |
| 301962   | Mastech | HY5003-2      | 0-50/3; 0-50/3                | 300          | 115/230 ±10%        | 2-Digital LED     | Y                           | N                      | 10.4 x 6.5 x 14.4      | 26               | 299.95   | 269.95   |
| 301947   | Mastech | HY3005D-2A    | 0-30/5; 0-30/5                | 300          | 115/230 ±10%        | 4-Digital LCD     | Y                           | N                      | 10.4 x 6.5 x 14.4      | 26.5             | 299.95   | 269.95   |
| 211713   | Mastech | HY3003-3      | 0-30/3; 0-30/3; 5/3           | 300          | 115/230 ±10%        | 2-Digital LED     | Y                           | N                      | 10.4 x 6.5 x 14.4      | 29               | 299.95   | 269.95   |
| 211684   | Mastech | HY3003D-3     | 0-30/3; 0-30/3; 5/3           | 195          | 115/230 ±10%        | 4-Digital LCD     | Y                           | N                      | 10.4 x 6.5 x 14.4      | 29               | 299.95   | 269.95   |
| 301955   | Mastech | HY3005D-3A    | 0-30/5; 0-30/5; 5/3           | 315          | 115/230 ±10%        | 4-Digital LCD     | Y                           | N                      | 10.4 x 6.5 x 14.4      | 29               | 379.95   | 339.95   |
| 301938   | Mastech | HY3005        | 0-30/5; 0-30/5; 5/3           | 315          | 115/230 ±10%        | 2-Digital LED     | Y                           | N                      | 10.5 x 6.5 x 14.3      | 10               | 199.95   | 179.95   |
| 197991   | Extech  | 382213        | 0-30/3; 5/0.5; 12/0.5         | 98.5         | 110/120 @ 50-60 Hz  | 2-Digital LCD (3) | Y                           | Y                      | 6 x 5.6 x 9.5          | 11               | 199.95   | 179.95   |
| 197982   | Extech  | 382203        | 0-30/3; 5/0.5; 12/0.5         | 98.5         | 110/120 @ 50-60 Hz  | 2-Analog          | Y                           | Y                      | 6 x 5.6 x 9.5          | 11               | 169.95   | 159.95   |
| 1939618  | Extech  | 382270        | 0-30/5; 0-30/5; 3-6/3; 8-15/1 | 334.5        | 110/120 @ 50-60 Hz* | 4-Digital LED (4) | Y                           | Y                      | 10.2 x 6.3 x 14.5      | 26.5             | 449.95   | 429.95   |
| 2112866  | SKMI    | LP-303-TP     | 0-30/3; 0-60/3; 0-30/6        | 180          | 115 @ 50Hz          | 4-Digital LED (3) | Y                           | Y                      | 9.3 x 5.4 x 14.6       | 21.6             | 599.95   | 549.95   |

\* Selectable

## 13.8VDC Precision Regulated Power Supplies

★ Web Code: YEH

- Heavy duty 5'8" 3-prong power cord
- Illuminated rocker switch
- Short-circuit protected
- Output mating terminals: see pg 130 for cigarette plugs & pg 159 for banana terminal plugs
- Fuse protected



1918745 Cigarette plug



136581  
Banana terminal



138668  
Banana terminal (rear)

| Part No. | Manufacturer | Mfr. Part No. | Power (W) | Output Volts @ Curr. | Input Voltage | Output Terminals           | Size (L" x W" x H") | Wt. (lbs.) | 1       | 5       | 25      |
|----------|--------------|---------------|-----------|----------------------|---------------|----------------------------|---------------------|------------|---------|---------|---------|
| 1918745  | Samlex       | SPS-1204UL    | 46.2      | 13.8VDC @ 3.5A       | 120VAC @ 60Hz | Cigarette plug / terminals | 5.2 x 4.0 x 2.0     | 2.0        | \$39.95 | \$35.95 | \$32.95 |
| 136581   | Samlex       | RPS1207#      | 96.6      | 13.8VDC @ 7.0A       | 115VAC @ 60Hz | Banana terminals           | 8.7 x 5.7 x 3.6     | 8.5        | 69.95   | 59.95   | 54.95   |
| 138668   | Various      | 38-381A       | 138.0     | 13.8VDC @ 10A        | 115VAC @ 60Hz | Banana terminals (rear)    | 7.0 x 6.6 x 4.3     | 10.0       | 59.95   | 53.95   | 48.95   |
| 138676   | Various      | 52-192012A    | 276.0     | 13.8VDC @ 20A        | 115VAC @ 60Hz | Banana terminals           | 10.0 x 7.8 x 4.4    | 15.9       | 109.95  | 94.95   | 84.95   |

# P/N 136581 includes overheating protection

## 80-Watt Switching Mode DC Power Supply

### 3-in-1 DC Power Supply

- Input voltage: 90-264VAC @ 47-63Hz
- Constant voltage and current
- Ripple and noise: <30mVp-p
- Load regulation: <20mV
- Remote sensing for accurate applied voltage at load point
- 3 ranges: 0 - 16.4V @ 0-5.1A; 0 - 27.6V @ 0 - 3.1A; 0 - 36.8V @ 0 - 2.3A
- Basic accuracy: ±1%
- Line regulation: <4mV
- Dual 4-digit LED display
- Front and rear output terminals



| Part No. | Mfr. Part No. | Weight   | Size               | 1        | 5        |
|----------|---------------|----------|--------------------|----------|----------|
| 1939600  | 382260        | 4.2 lbs. | 13"H x 5"W x 2.1"D | \$279.95 | \$239.95 |

## ATX Power Supply Testers

NEW  
MARKED IN PINK

- Tester for ATX power supply outputs to indicate pass or fail
- 24-pin ATX connector on one side of the tester
- 4-pin HDD/ floppy drive connector, and 6-pin/8-pin P4 connector on the other side
- Tests +3.3V, ±5V, ±12V, +5VSB and PG



| Part No. | Product No. | Description                       | Color | 1       | 5       |
|----------|-------------|-----------------------------------|-------|---------|---------|
| 1928450  | PST20       | LED indicators                    | Blue  | \$19.95 | \$17.95 |
| 2119988  | E77CECE38L  | LED indicators with on/off switch | Black | 21.95   | 19.95   |
| 2115514  | E77CEBE80L  | LCD display readout               | Black | 24.95   | 22.49   |

★ Benchtop Power Supplies — Enter Web Code SAX

## JAMECO ValuePro Test Lead Starter Kit

This kit includes our top selling test leads at a reduced price.

Includes one of each:

- BNC female-to-pigtail cable (P/N 256832)
- BNC male-to-pigtail cable (P/N 2097555)
- BNC male-to-alligator clip (P/N 11384)
- BNC male-to-mini clip (P/N 11464)
- BNC female-to-micro clip (P/N 11422)
- Mini clip to stackable banana test leads (P/N 21857)
- Double banana plug to alligator clip test leads (P/N 107423)
- Protected multimeter test leads (P/N 1945962)
- Standard banana-style multimeter test leads (P/Ns 77738/77746)
- Anti-static wrist strap (P/N 34552)

| Part No. | Product No.           | 1       | 5       |
|----------|-----------------------|---------|---------|
| 2112336  | Test Lead Starter kit | \$39.95 | \$36.95 |

## Test Leads and Cables

★ Web Code TLC



| Part No. | Mfr.     | Product No. | Description   | Size (L") | 1       | 10      | 25      |
|----------|----------|-------------|---|-----------|---------|---------|---------|
| 159871   | Pomona   | 2249-C-36A  | BNC male to male cable, RG58C/U, 50Ω, 20 AWG, black                     | 36        | \$14.95 | \$14.49 | \$13.95 |
| 159880   | Pomona   | 2249-C-60A  | BNC male to male cable, RG58C/U, 50Ω, 20 AWG, black                     | 60        | 18.95   | 17.95   | 16.95   |
| 2097141  | Pomona   | 2249-E-36A  | BNC male to male cable, RG59B/U, 75Ω, 23 AWG, black                     | 36        | 16.95   | 15.95   | 14.95   |
| 2097125  | Pomona   | 2249-K-36A  | BNC male to male cable, RG174/U, 50Ω, 26 AWG, black                     | 36        | 22.95   | 21.95   | 20.49   |
| 176971   | Pomona   | 4532-C-36A  | BNC M to Mini alligator clips w/strain relief, RG58C/U, 50Ω, 20AWG, blk | 36        | 18.95   | 17.95   | 16.95   |
| 11384    | BenchPro | GCA26-R     | BNC male to Alligator clip, RG58/U, black                               | 23        | 4.65    | 3.95    | 2.95    |
| 11464    | BenchPro | 05-A-078-R  | BNC male to Mini-clip test lead, RG174A/U, black                        | 39        | 3.95    | 3.59    | 3.29    |
| 11422    | BenchPro | 05-A-081-R  | BNC male to Micro-clip test lead, RG174A/U, black                       | 39        | 3.75    | 3.19    | 2.59    |
| 2097150  | Pomona   | 5187-C-36A  | BNC male to MiniGrabber test leads, RG58C/U 50Ω, 20 AWG, blk            | 36        | 18.95   | 17.95   | 16.95   |
| 176954   | Pomona   | 5187-K-36A  | BNC male to MiniGrabber test leads, RG174/U 50Ω, 26 AWG, blk            | 36        | 24.95   | 23.95   | 22.95   |

Test Leads & Cables continued on next page

★ For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above



# Test Leads, Cables, Plugs, Clips & Posts

3 LEVELS OF SAVINGS  
NAME BRANDS HOUSE BRANDS FACTORY OVERRUN

**Pomona**  
TEST EQUIPMENT

**KEYSTONE**

**JAMECO** BenchPro

**PROBE MASTER**

## Test Leads and Cables (Continued)

\*Web Code TLC

| Part No. | Manufacturer | Product No.    | Description   | Size (L") | 1       | 10      | 25      |
|----------|--------------|----------------|---|-----------|---------|---------|---------|
| 2113877  | Pomona       | 3957           | BNC male to Multi-Stacking banana plugs (2nd End)                           | 1.55      | \$13.95 | \$13.49 | \$12.95 |
| 256832   | BenchPro     | CBB-069-R      | BNC female to pigtail, 20 AWG, 2 wire, 1 black, 1 red                       | 7         | 5.49    | 4.95    | 4.49    |
| 2097555  | BenchPro     | CBB-070-R      | BNC male to pigtail, 20 AWG, 2 wire, 1 black, 1 red                         | 9         | 5.49    | 4.95    | 4.49    |
| 2113869  | Pomona       | 3788           | BNC female Minigrabber test clips (2nd end)                                 | 2.56      | 10.49   | 9.95    | 9.49    |
| 2113885  | Pomona       | 5051           | BNC female only to #8 spade lugs (2nd end)                                  | 8         | 8.95    | 8.49    | 7.95    |
| 1945962  | Various      | TP-1           | Protected probes w/ rt. angle banana screw-on alligator clips, 1 blk, 1 red | 40        | 7.95    | 6.95    | 6.25    |
| 212222   | Probe Master | 8043S          | Softie test probe leads (w/10 pcs interchangeable tips) 18AWG, 1 blk, 1 red | 39        | 26.95   | 25.95   | 24.95   |
| 174625   | Probe Master | 8150           | Micro-tip test probe leads rt. angle (w/10 plunger type tips), 1 blk, 1 red | 39        | 36.95   | 33.95   | 31.95   |
| 168516   | BenchPro     | GA-5010        | Universal test lead kit w/ 12 interchangeable tips, 1 black, 1 red          | 36        | 8.95    | 6.95    | 5.95    |
| 155951   | Pomona       | 5519A-R        | Banana plug to rt. angle probe, insulated leads, 18 AWG 1 blk, 1 red        | 48        | 13.95   | 13.25   | 12.49   |
| 77738    | BenchPro     | GF19-R-R       | Protected banana style multimeter test leads, 1 black, 1 red                | 40        | 5.95    | 5.49    | 4.95    |
| 77746    | BenchPro     | FC-15B-R-R     | Standard banana style multimeter test probes, 1 black, 1 red                | 42        | 7.59    | 6.95    | 6.25    |
| 10444    | BenchPro     | GAL01          | Alligator clip test leads, 24 AWG (19/36) 10-pc. assorted colors            | 15        | 4.95    | 4.49    | 3.95    |
| 159901   | Pomona       | B-24-02-R      | Stackable banana patch cords, 18 AWG, 1 black, 1 red                        | 24        | 9.95    | 8.95    | 8.29    |
| 159919   | Pomona       | B-36-02-R      | Stackable banana patch cords, 18 AWG, 1 black, 1 red                        | 36        | 10.95   | 9.95    | 8.95    |
| 77842    | BenchPro     | KLN-4-25/H-R-R | Stackable banana patch cords, 18 AWG, 2 ea. (blk,red,blue,white,yellow)     | 9.8       | 23.95   | 20.95   | 19.95   |
| 107423   | BenchPro     | GCA340-R-R     | Stackable double banana plug to alligator clip test leads, 1 blk, 1 red     | 36        | 3.95    | 3.59    | 3.19    |
| 2113949  | Pomona       | 72905-2        | Micro SD Grabber test clip lead, attaches to 08mm/4mm female lead, red      | 3         | 5.49    | 4.95    | 4.69    |
| 159899   | Pomona       | 3782-36-02-R   | Mini-clip w/ stackable banana test leads, 20 AWG, 1 black, 1 red            | 36        | 11.49   | 10.95   | 10.49   |
| 21857    | BenchPro     | 05-A-082-R-R   | Mini-clip to stackable banana test leads, black                             | 39        | 3.95    | 3.49    | 2.95    |
| 21865    | BenchPro     | 05-A-079-R-R   | Mini-clip to stackable banana test leads, red                               | 39        | 3.95    | 3.49    | 2.95    |
| 135299   | BenchPro     | SF-207A-R-R    | Mini-clip test leads, 26 AWG, 5 sets (blue, black, yellow, red, green)      | 14        | 10.95   | 9.95    | 8.95    |
| 571188   | Pomona       | 3782-60-0      | MiniGrabber™ test clip to stacking banana plug                              | 60        | 5.95    | 5.49    | 4.95    |
| 156495   | Pomona       | 5523-R-R       | MiniGrabber™ test clip patch cord, 20 AWG 10-pc. assorted colors            | 24        | 39.95   | 37.95   | 36.95   |
| 2113906  | Pomona       | 6341           | Test probe set, precision electronic w/ complete set of 5 tips              | 39.4      | 35.95   | 34.95   | 33.95   |
| 2113914  | Pomona       | 5953A          | Test probes with retractable needle tips, right-angle for DMM               | 48        | 23.49   | 22.49   | 21.95   |
| 155985   | Pomona       | 2708B-R        | 9 slot test lead holder, accepts RG213 & RG214 wire sizes (blue)            | 11        | 12.95   | 12.49   | 11.95   |
| 155977   | Pomona       | 4408-R         | 10 slot test lead holder, accepts RG59 & RG108 wire sizes (black)           | 11        | 10.95   | 10.49   | 9.95    |
| 155969   | Pomona       | 1508-R         | 14 slot test lead holder, accepts RG58 & RG142 wire sizes (orange)          | 11        | 11.95   | 11.49   | 10.95   |

## Test Clips, Plugs and Posts

\*Web Code TLC

| Part No. | Manufacturer | Product No.   | Description   | Size (in.)         | 1      | 10     | 100    |
|----------|--------------|---------------|---|--------------------|--------|--------|--------|
| 71240    | BenchPro     | GIP-003-R-R   | Binding post, screw type, chassis mount 1 black, 1 red              | 1.0 L x .50 Dia.   | \$1.29 | \$1.15 | \$ .99 |
| 77691    | BenchPro     | GIP-001-R-R   | Binding post, screw type, chassis mount 1 black, 1 red              | 1.8 L x .50 Dia.   | 1.59   | 1.45   | 1.29   |
| 2097264  | Pomona       | 4995-0-R      | Binding post, spring loaded, panel mount, black                     | 2.0 L x .50 Dia.   | 20.95  | 19.95  | 18.95  |
| 2097272  | Pomona       | 4995-2-R      | Binding post, spring loaded, panel mount, red                       | 2.0 L x .50 Dia.   | 20.95  | 19.95  | 18.95  |
| 2097192  | Pomona       | 5165-0-R      | Shorting bar, insulated double banana plug w/ binding post, blk     | 1.78 L x .48 Dia   | 12.95  | 11.95  | 10.95  |
| 1582188  | Keystone     | 6092-R        | Banana jack, chassis mount, 0.182" solder tab, black                | .937 L x .433 Dia. | 1.39   | 1.29   | 1.19   |
| 1582170  | Keystone     | 6091-R        | Banana jack, chassis mount, 0.182" solder tab, red                  | .937 L x .433 Dia. | 1.39   | 1.29   | 1.19   |
| 256779   | BenchPro     | R1-17-BLK-R-R | Panel mount tip jack; 1/4"-32 thread, black (10 pc. pkg)            | .988 L x .29 Dia.  | 7.95   | 6.95   | 5.95   |
| 263864   | BenchPro     | R1-17-RED-R-R | Panel mount tip jack; 1/4"-32 thread, red (10 pc. pkg)              | .988 L x .29 Dia.  | 7.95   | 6.95   | 5.95   |
| 125197   | BenchPro     | GBRR2-R-R     | Screw mount double binding/banana post, black/red                   | 1.6 L x 1.4 W      | 3.95   | 3.49   | 2.95   |
| 72195    | BenchPro     | GBP205-R-R    | Set screw banana plug, 1 black, 1 red                               | 1.6 L x .40 Dia.   | 1.59   | 1.45   | 1.29   |
| 137526   | BenchPro     | HP-2234P-R-R  | Set screw banana plug, 1 black, 1 red                               | 2.3 L x .30 Dia.   | 2.99   | 2.49   | 1.99   |
| 159855   | Pomona       | 1325-02-R     | Solderless stackable banana plug w/ set screw, 1 black, 1 red       | 1.55 L x .44 Dia.  | 3.19   | 2.95   | 2.75   |
| 571145   | Pomona       | 1325-2-R      | Solderless stackable banana plug w/ set screw, red (set of 10)      | 1.55 L x .17 Dia.  | 13.95  | 13.49  | 12.95  |
| 159863   | Pomona       | 1825-02-R     | Solderless stackable banana plug w/ safety collar, 1 black, 1 red   | 4.59 L x .39 Dia.  | 3.19   | 2.95   | 2.75   |
| 125210   | BenchPro     | GBRR4-BLK-R-R | Solderless stackable double banana plug, w/ wire guide, black       | 1.59 L x 1.20 W    | 2.39   | 2.19   | 1.95   |
| 125218   | BenchPro     | GBRR4-RED-R-R | Solderless stackable double banana plug, w/ wire guide, red         | 1.59 L x 1.20 W    | 2.39   | 2.19   | 1.95   |
| 571268   | Pomona       | MDP-2         | Solderless stackable double banana plug, w/ wire guide, red         | 1.55 L x 1.13 W    | 2.49   | 2.29   | 2.09   |
| 159927   | Pomona       | MDP-02-R      | Solderless stackable dbl banana plug, w/ wire guide, red (set of 2) | 1.55 L x 1.18 W    | 5.49   | 5.29   | 4.95   |
| 11440    | BenchPro     | 03-701A-R-R   | BNC female to standard double banana plug, black                    | 2.03 L x 1.7 W     | 4.95   | 4.49   | 3.95   |

Test Clips, Plugs & Posts  
continued on next page

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 197.

## Test Clips, Plugs and Posts (Continued)

\*Web Code TLC

\* Order in multiples of 10

| Part No. | Manufacturer | Product No.  | Description   | Size (in.)        | 1       | 10      | 100     |
|----------|--------------|--------------|---|-------------------|---------|---------|---------|
| 2113893  | Pomona       | 3296         | BNC male to mini stackable binding posts                  | 1.93 L x .88 W    | \$23.95 | \$22.95 | \$21.95 |
| 125225   | BenchPro     | GB2BR2       | BNC male to standard double banana plug, black            | 2.21 L x 1.8 W    | 5.95    | 5.39    | 4.95    |
| 125233   | BenchPro     | GB1BN2       | BNC female to double binding/banana posts, black          | 2.14 L x 1.8 W    | 4.95    | 4.45    | 3.95    |
| 99355    | BenchPro     | GB2BN2       | BNC male to double binding/banana posts, black            | 2.35 L x 1.7 W    | 4.95    | 4.45    | 3.95    |
| 2113519  | Fluke        | AC220        | Alligator clip, suregrip, opens to 13mm, 1 black, 1 red   | 5.5 L x .25 Dia.  | 29.95   | 28.95   | 27.95   |
| 2113527  | Fluke        | AC283        | Pincer clips, suregrip, opens to 5mm, 1 black, 1 red      | 8.0 L x .25 Dia.  | 29.95   | 28.95   | 27.95   |
| 2113922  | Pomona       | 5912B        | Maxigripper test clip set with jaws, 1 red                | 0.5 D             | 24.49   | 23.49   | 22.49   |
| 114810   | BenchPro     | G2P004-R     | Micro test clip, 1 red, 1 black                           | 1.7 L             | 1.59    | 1.45    | 1.29    |
| 153163   | BenchPro     | SF-207-BL-R  | Micro test clip, blue                                     | 1.7 L             | .95     | .85     | .75     |
| 114818   | BenchPro     | G2P002-R     | Mini test clip, 1 black, 1 red                            | 3.5 L             | 2.25    | 1.95    | 1.75    |
| 684502   | Pomona       | 6311         | SMD micro grabber test clip, 8mm tip, 1 green, 1 yellow   | 1.5 L x .02 W     | 84.95   | 82.95   | 79.95   |
| 684545   | Pomona       | 6313         | SMD micro grabber test clip, 2mm tip, 1 green, 1 yellow   | 1.5 L x .02 W     | 69.95   | 67.95   | 65.95   |
| 248921   | BenchPro     | SF101CP-R    | Mini alligator clip, solder/crimp (set of 2)              | 1.2 L x .30 W     | .39     | .36     | .33     |
| 248939   | BenchPro     | SF-103CP-R   | Mini alligator clip, solder/crimp (set of 2)              | 1.6 L x 0.3 Dia.  | .35     | .29     | .25     |
| 256525   | BenchPro     | SF105B-R     | Alligator clip, barrel/screw, 2" (set of 2)               | 2.0 L x .20 Dia.  | .55     | .49     | .45     |
| 70991    | BenchPro     | GIP006-R     | Insulated alligator clips, 1 black, 1 red                 | 2.3 L x .50 W     | .55     | .49     | .39     |
| 248962   | BenchPro     | SF-103SV-BK  | Black insulator sleeve for PNs 248939 & 256525 (set of 2) | 2.1 L x .20 Dia.  | .55     | .49     | .45     |
| 248972   | Various      | SF103SV-RD-R | Red insulator sleeve for PNs 248939 & 256525 (set of 2)   | 2.1 L x .20 Dia.  | .35     | .29     | .25     |
| 1581986  | Keystone     | 5001         | Looped color coded test point, mini, black                | .3 L x .04 Dia.   | *       | .19     | .15     |
| 1581994  | Keystone     | 5002         | Looped color coded test point, mini, white                | .3 L x .04 Dia.   | *       | .19     | .15     |
| 1582065  | Keystone     | 5012         | Looped color coded test point, white                      | .45 L x .063 Dia. | .29     | .25     | .19     |



\* Blue Part No. = Limited Quantity Available

### 12-Piece Lightweight Computer-Service Tool Kit

- Kit includes:
  - 2 nut drivers: 3/16", 1/4"
  - 3-claw parts holder
  - 1-pc hex key wrench
  - IC extractor
  - 4-pc screwdriver set
  - Tweezers
  - Clear components tube holder
- Size: 85"L x 6.0"W x 1.5"H • Weight: 1.1 lbs.

| Part No. | Description       | 1       | 5       | 25      |
|----------|-------------------|---------|---------|---------|
| 167206   | 12-piece tool kit | \$13.95 | \$12.49 | \$10.95 |

### 26-Piece SAE Hobby Tool Set

- 4-1/2" long nose pliers
- 4-1/2" diagonal cutting pliers
- #1 & #2 Phillips bits
- #1 & #2 pozi bits
- 3/16" & 1/4" slotted bits
- Hex to 1/4" driver adapter
- Compact carrying case
- T-10, T-15, and T-20 Torx bits
- Driver handle
- 3" extension bar for 1/4" drive
- Tweezers
- 3 slotted and 3 screw driver precision set
- 3/16", 1/4", 11/32" and 3/8" sockets for 1/4" drive
- Size: 12.0"L x 9.0"W x 2.0"H • Weight: 1.5 lbs.

| Part No. | Description         | 1       | 5       | 25      |
|----------|---------------------|---------|---------|---------|
| 170069   | 26-pc. SAE tool set | \$17.95 | \$15.95 | \$12.95 |

### 40-Piece Electronic Tech Tool Kit

- Kit includes:
  - Wire cutters/ stripper
  - Adapter bit for sockets
  - Pocket clip screwdriver
  - 10-pc screwdriver set
  - T10-T25 reversible
  - Torx screwdriver bits
  - Potentiometer alignment tools
  - 3/16"-1/2" S.A.E. nut driver sockets
  - 6mm-12mm metric nut driver sockets
  - Slotted and Phillips screwdriver bits
  - Extra long 3-claw parts holder
  - IC inserter with pin straightener
  - IC extractor
- Size: 9.5"L x 6.8"W x 1.4"H • Weight: 1.7 lbs.

| Part No. | Description       | 1       | 5       | 25      |
|----------|-------------------|---------|---------|---------|
| 119183   | 40-piece tool kit | \$21.95 | \$19.95 | \$17.95 |

### 51-Piece Tech Tool Kit

- Kit includes:
  - Storage box
  - 2 pliers
  - Tweezers
  - Scissors
  - 7-piece hex key set
  - PVC insulated tape
  - Multimeter
  - Brush
  - 10-piece screwdriver set
  - Utility knife (3 blades)
  - 3-piece soldering aid kit
  - Desoldering pump
  - 6-piece electronic screwdriver set
  - Soldering iron with stand and sponge
- Case features removable pallets, a combination lock and a cushioned black plastic handle
- Size: 12.5"L x 17.5"W x 3.5"H • Weight: 10.4 lbs.

| Part No. | Description       | 1       | 5       |
|----------|-------------------|---------|---------|
| 26681    | 51-piece tool kit | \$99.95 | \$89.95 |

\*For Tool Kits — Enter Web Code CAA

### 69-Piece Tech Service Tool Kit

- Kit includes:
  - Storage box
  - 7 pliers
  - Tweezers
  - Spring hook
  - 3-piece soldering aid kit
  - Desoldering pump
  - 3-piece alignment tool set
  - Diagonal cutter
  - Soldering iron
  - Forceps
  - 9-piece screwdriver set
  - Wire stripper
  - 5-piece file set
  - Flashlight
  - 3-prong holder
  - PVC insulated tape
  - Heat sink
  - Measuring tape
  - 6-piece electronic screwdriver set
  - 40-piece socket & screwdriver set
  - 10-piece electronic wrench set
- Size: 18.5"L x 13.8"W x 6.7"H • Weight: 22.8 lbs.

| Part No. | Description       | 1        | 5        |
|----------|-------------------|----------|----------|
| 149024   | 69-piece tool kit | \$299.95 | \$269.95 |

### 52-Piece Master Electronics Tool Kit

Simply every tool needed for field repair or installation. All in a handsome lockable case, with room for spare parts or special equipment.

- Kit includes:
  - 7 pliers
  - Storage box
  - Wrench
  - 3-piece soldering aid kit
  - Soldering iron with stand and sponge
  - 10-piece screwdriver set
  - Brush
  - 6-piece screwdriver set
  - Desolder pump
  - Testing screwdriver
  - IC extractor
  - 7-piece hex set
  - 6-piece wrench set
  - PVC insulated tape
  - Solder core
  - Heat sink
  - Measuring tape
  - 5-piece file set
  - Crimping tool
  - Oil can
  - 5-piece file set
  - Alignment tool
  - Flashlight
  - 3-prong holder
  - Hammer
  - Scissors
  - Part tube
  - Utility knife (3 blades)
  - Tweezers
- Carrying case has two removable pallets, adjustable compartments, and combination locks
- Size: 18.0"W x 13.0"D x 4.0"H
- Weight: 16.0 lbs.

| Part No. | Description                  | 1        | 5        |
|----------|------------------------------|----------|----------|
| 218245   | 52-piece electronic tool kit | \$134.95 | \$119.95 |

### Aluminum Tool Case

Made of lightweight aluminum, this tool case is designed to take rough field use.

- Size: 19.0"L x 14.0"W x 6.0"

Includes: Tool pallet, egg carton foam lid and 2.5" thick pre-cut foam bottom

| Part No. | Description         | 1       | 5       |
|----------|---------------------|---------|---------|
| 261877   | Tool/equipment case | \$44.95 | \$39.95 |

\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above



## 100-Piece Professional Electronics Tool Kit

Kit includes:

- Soldering iron
- 12 screwdrivers
- 7-piece hex key set
- Extractor
- 4 Pliers
- Adjustable wrench
- Crimper/Stripper
- 6-piece screwdriver set
- 3-piece soldering aid kit
- Desoldering pump
- Multimeter
- Tweezers
- 5-piece file set
- 10-piece wrench set
- Voltage tester
- 2 bottles cleaning liquid
- Blade cutters
- Cordless screwdriver kit (bits included)
- Aluminum case features removable pallets, surface-type locks, and black plastic handle
- Size: 18.0"L x 14.0"W x 6.0"H • Weight: 15.5 lbs.



| Part No. | Description        | 1        | 5        |
|----------|--------------------|----------|----------|
| 242851   | 100-piece tool kit | \$199.95 | \$159.95 |

## R<sup>2</sup> RapidRench Adjustable Ratcheting Socket Wrench

- Fits hundreds of SAE and metric fasteners
- Tighten or loosen with a flip of a switch
- Dial adjusts jaws to the exact size of the fastener
- Jaw capacity: 1/4" to 7/8" (6.35mm to 22.2mm)
- Rubberized comfort grip for extra control



| Part No. | Mfr. Part No. | 1       | 5       |
|----------|---------------|---------|---------|
| 1943131  | FR28SWMP      | \$29.95 | \$26.95 |

**\*Wrenches — Enter Web Code WEL**

## RapidSlide Adjustable Wrench

- Slide/control button on handle for fast, easy and accurate jaw adjustment
- SAE/metric adjustment markings on head
- 1" maximum jaw opening allows each tool to work with more fastener sizes



| Part No. | Mfr. Part No. | 1       | 5       |
|----------|---------------|---------|---------|
| 1943123  | AC8NKWMP      | \$19.95 | \$17.95 |

## Rotary Coax Cable Strippers

2 and 3 Blade

- 159119 (3 Blade):
- 2 settings RG58/59/62
  - For cable sizes 4-10mm
  - Size: 4.2"L x 1.3"W
  - Color: black



- 159185 (2 Blades):
- 4 settings RG58/59/62/174
  - For cable sizes 4-12mm
  - Size: 3.9"L x 0.7"W • Color: gray



Includes: Hex key wrench for adjusting blade

| Part No. | Mfr. Part No.    | 1      | 5      | 25     |
|----------|------------------|--------|--------|--------|
| 159119   | HT312B (3 blade) | \$9.95 | \$9.45 | \$8.95 |
| 159185   | HT332D (2 blade) | 12.95  | 11.95  | 10.95  |

**For Electronic Starter Kit see page 153**

## Cabling Technician's Tool Belt Kit

Kit Includes:

- 66/110 blade punch down tool
- Probe pick and spudger
- Cable stripper
- Electrician's scissors
- Splicer's knife
- Mini screwdriver
- High quality nylon belt pouch



| Part No. | Mfr. Part No. | 1       | 5       | 25      |
|----------|---------------|---------|---------|---------|
| 2112250  | TTK-5200      | \$49.95 | \$44.95 | \$39.95 |



## Automatic Wire Strippers

- Spring loaded handle
- Size: 7.0"L x 2.5"W
- Weight: 0.8 oz.
- Provide a clean strip without damaging conductor



Includes: Wire stopper for desired strip length

| Part No. | Mfr.     | Description | 1      | 5      | 25     |
|----------|----------|-------------|--------|--------|--------|
| 2112284  | BenchPro | 10-24 AWG   | \$8.95 | \$7.95 | \$6.95 |
| 175098   | Various  | 8-22 AWG    | 16.95  | 15.49  | 13.95  |



## Flat Cable Cutter

- Spring loaded handle
- Blade lock for safe storage
- Provides clean cut
- Size: 6.5" L x 2.0"W
- Weight: 5.6 oz.



| Part No. | Description       | 1      | 5      | 25     |
|----------|-------------------|--------|--------|--------|
| 2112241  | Flat cable cutter | \$5.95 | \$5.49 | \$4.95 |



## Heavy Duty Scissors

- Spring loaded handle
- Blade lock for safe storage
- Ergonomic handle
- Stainless steel tongs
- Suitable for fiber optic cable



| Part No. | Description         | 1      | 5      | 25     |
|----------|---------------------|--------|--------|--------|
| 2112313  | Heavy duty scissors | \$5.95 | \$5.49 | \$4.95 |



## UTP/STP Wire Stripper

- Quickly strips insulation without damaging wire
- Strips shielded and unshielded
- Strip 24 to 3 AWG (.5 - 6.2mm)
- Twisted pair cable
- Size: 3.5"L x 1.25"W



| Part No. | Description      | 1      | 5      | 25     |
|----------|------------------|--------|--------|--------|
| 2112292  | UTP/STP stripper | \$2.95 | \$2.49 | \$1.95 |

## Hand Tools for Mini-Fit™ Jr.



304928: Accepts wire range from 14-24 AWG

| Part No. | Mfr. Part No. | Description     | 1       | 5       |
|----------|---------------|-----------------|---------|---------|
| 304928   | 63811-1000    | Crimp tool      | \$49.95 | \$44.95 |
| 304936   | 11-03-0044    | Extraction tool | 19.95   | 18.95   |

**For all Your Wire and Cable needs see pages 58-61**

## 5" Wire Cutter/Strippers

- Insulated handles
- Spring return
- Tempered steel cutting edge
- Size: 5.0"L x 3.0"W
- One-year warranty



78992: 10-30 AWG (screw adjustable)  
215889: 10-24 AWG (dial to adjust for wire gauge)

| Part No. | Product No. | 1      | 5      | 25     | 100    |
|----------|-------------|--------|--------|--------|--------|
| 78992    | HT108       | \$4.49 | \$3.95 | \$3.49 | \$2.95 |
| 215889   | JE-2022C    | 3.95   | 3.69   | 3.29   | 2.95   |

**\*Cutters/Strippers — Enter Web Code BAK**



## 5" Wire Cutter/Stripper

- Strips and cuts 20-24 AWG wires
- Spring loaded for easy use
- Cutter angled at 45° for use in tight places
- Insulated grips
- Size: 5.0"L x 3.0"W



| Part No. | Mfr. Part No. | 1      | 5      | 25     | 100    |
|----------|---------------|--------|--------|--------|--------|
| 159274   | HT1091        | \$4.95 | \$4.49 | \$3.95 | \$3.49 |



## 6" Wire Cutter/Strippers

- Plier nose
- Wire size markings, in AWG and mm
- Size: 6.0"L x 2.0"W



161226: Premium  
12-20 AWG stranded;  
10-18 AWG solid

161234: Premium  
16-26 AWG stranded; 14-24 AWG solid

161218: Standard  
16-26 AWG stranded; 14-24 AWG solid  
• Color: red

| Part No. | Mfr. Part No. | Description         | 1       | 5       |
|----------|---------------|---------------------|---------|---------|
| 161226   | ID45-215      | Cushioned grips     | \$15.95 | \$14.95 |
| 161234   | ID45-216      | Cushioned grips     | 15.95   | 14.95   |
| 161218   | ID45-121      | Non-cushioned grips | 14.49   | 12.95   |



## 6.6" Wire Stripper

- Wire stripper, cutter, steel wire cutter, and wire loop
- Scale: AWG and mm
- Strips and cuts wires from 20-30 AWG
- Size: 6.6"L x 2.0"W



| Part No. | Mfr. Part No. | 1      | 5      | 25     |
|----------|---------------|--------|--------|--------|
| 159291   | HT5023        | \$9.95 | \$8.95 | \$7.95 |

**\*Wire Strippers — Enter Web Code HAY**



## 7-in-1 Wire-Handling Tools

- Wire stripper, wire cutter, steel wire cutter, pliers and wire loop
- Solderless crimping tool
- Scale: mm and inch
- Size: 6.6"L x 3.0"W



| Part No. | Mfr. Part No. | Description | 1      | 5      | 25     |
|----------|---------------|-------------|--------|--------|--------|
| 18797    | HT1041        | 10-18AWG    | \$4.95 | \$4.49 | \$3.95 |
| 127862   | HT1042        | 16-26AWG    | 5.95   | 5.49   | 4.95   |
| 127871   | HT1043        | 22-30AWG    | 5.95   | 5.49   | 4.95   |



## Metal Modular Connector Crimping Tool

**Crimps 6P and 8P Plugs (6P2C, 6P4C, 6P6C, 8P2C, 8P4C, 8P6C, 8P8C)**

- Cable stripper/wire cutter
- Size: 8.0"L
- Weight: 1.8lbs.

| Part No. | Description | 1       | 5       | 25      |
|----------|-------------|---------|---------|---------|
| 114527   | RJ11/RJ45   | \$22.95 | \$19.95 | \$17.95 |

## Ratcheted Modular Connector Crimping Tool

**Crimps RJ45 (8P8C) and RJ11/12 (6P6C)**

- Insulated grip
- Ratcheted type
- Metal • 7.5"L
- Weight: 0.7 lbs.

| Part No. | Description | 1       | 5       | 25      |
|----------|-------------|---------|---------|---------|
| 159312   | RJ45/11/12  | \$22.95 | \$19.95 | \$17.95 |

## Modular Cut/Crimp/Strip Tools

**For RJ11 (6P) and RJ45 (8P) Modular Plugs**

- Repeatable crimp action for consistent high-quality connections

**Includes:** Cut and strip blade

**174684:** • Size: 8.0"L x 2.0"W  
• Weight: 0.8 lbs.

**174676:** • Size: 8.5"L x 2.2"W  
• Weight: 1.2 lbs.

**161091:** • Size: 6.0"L x 2.0"W • Weight: 0.8 lbs.

| Part No. | Mfr.    | Product No. | 1       | 5       |
|----------|---------|-------------|---------|---------|
| 174684   | Various | TTK071      | \$21.95 | \$19.95 |
| 174676   | Various | TTK070      | 23.95   | 21.95   |
| 161091   | Ideal   | ID30-496    | 44.95   | 42.95   |

## Half-Round Long Nose Pliers

- Drop forged steel
- Heat treated
- Spring return action • Vinyl grips
- Length: 4.5" • Knurled jaws

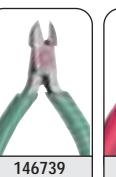
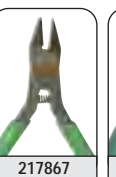
| Part No. | Description       | 1      | 5      | 25     |
|----------|-------------------|--------|--------|--------|
| 177608   | Half-round pliers | \$4.95 | \$4.49 | \$3.95 |

## Xcelite

## General Purpose Pliers and Cutters

**Needle Nose, Diagonal Pliers and Cutters**

- Cushion grips • General purpose use • Positive gripping of wire & subminiature components
- Narrow and fine tips provide increased clearance and allows use in restricted areas



### Needle Nose Pliers

| Part No. | Mfr.    | Part No. | Description         | 1       | 5       |
|----------|---------|----------|---------------------|---------|---------|
| 217891   | L4      |          | 4" mini needle nose | \$17.95 | \$16.49 |
| 217998   | LN54G   |          | 5" thin long nose   | 18.95   | 17.49   |
| 146721   | NN7776V |          | 5" long nose flat   | 19.95   | 18.95   |

### Shearcutter Pliers Set

| Part No. | Mfr. | Part No. | Description            | 1       | 5       |
|----------|------|----------|------------------------|---------|---------|
| 152055   | S2K  |          | 5.6" plier/5.2" cutter | \$16.95 | \$15.95 |

**\*Xcelite Pliers & Cutters — Enter Web Code XPC**

## Hex Crimp Tools

**Use with RG-58 and RG-59 Connectors with up to a 3/8" Ferrule**

- Weight: 1.5 lbs.
- 261745:** 1.7mm standard crimp for crimping center conductor on BNC and TNC connectors; up to 3/8" ferrule
- 261737:** Ferrules up to 1/2"

| Part No. | Description           | 1       | 5       |
|----------|-----------------------|---------|---------|
| 261745   | Hex crimp tool (3/8") | \$17.95 | \$15.95 |
| 261737   | Hex crimp tool (1/2") | 17.95   | 15.95   |



## Connector Compression

**For F/BNC/RCA Ferrules**

- Interchangeable die sockets
- Ratchet mechanism
- Integrated COAX cutter
- Black oxide steel frame
- Waterproof
- Size: 9.0"L x 2.5"W

| Part No. | Description            | 1       | 5       |
|----------|------------------------|---------|---------|
| 261761   | Compression multi-tool | \$34.95 | \$29.95 |



## Modular Connector Crimping Tool Set

**Crimps RJ11 and RJ45 Plugs**

- 8" metal modular crimping tool
- Cuts, strips and crimps
- Carrying case: blue hard plastic, 8.0"L x 10.5"W x 2.0"H
- Weight: 2.1 lbs.

**Includes:** 90 modular plugs, 40 pcs. 4P4C, 30 pcs. 6P6C, 20 pcs. 8P8C

| Part No. | Cross Ref. No. | 1       | 5       |
|----------|----------------|---------|---------|
| 73496    | HT2000B        | \$69.95 | \$64.95 |



**\*Crimping Tools — Enter Web Code PAL**

**For Networking & Telephone, Jacks & Plugs, see page 62**

## Ratcheted BNC Crimping Tool

**Crimps RG58, RG59, RG62, RG174 and Fiber Optic**

- Hex sizes: 0.043", 0.068", 0.100", 0.137", 0.213", 0.255"
- All steel construction
- Size: 8.5"L x 2.5"W
- Weight: 1.1 lbs.

| Part No. | Mfr.    | Part No. | 1       | 5       | 25      |
|----------|---------|----------|---------|---------|---------|
| 114535   | HT-336G |          | \$22.95 | \$19.95 | \$17.95 |

## Non-Insulated Terminal D-Sub Crimping Tool

**14-26 AWG**

- With cutter and insulated handles
- For computer pins and sockets, D-sub 26-28 AWG wire
- For butt-insulated connectors, 22-26 AWG wire
- For telephone spade lugs, 22-26 AWG wire
- For non-insulated connectors, 20-22 AWG wire
- For non-insulated connectors, 14-18 AWG wire
- Coiled spring return • Size: 7.3"L x 1.5"W

| Part No. | Mfr.   | Part No. | 1      | 5      | 25     |
|----------|--------|----------|--------|--------|--------|
| 99443    | HT202A |          | \$8.95 | \$7.95 | \$6.95 |

## D-Sub Crimping Tool

**20-28 AWG**

- Crimps D-sub pins and sockets
- For use w/ P/Ns 43377, 43369 pg 69 and 100766, pg 81
- Size: 7.0"L x 4.0"W • Weight: 9 oz.

| Part No. | Mfr.  | Part No. | 1       | 5      | 25     |
|----------|-------|----------|---------|--------|--------|
| 159266   | HT213 |          | \$10.95 | \$9.95 | \$8.95 |

## Precision 5-Piece Stainless Steel Pliers Set



- Spring return • Insulated handles

**Includes:** One 3.5"L micro cutting nippers and one each 4"L micro round nose pliers, long nose pliers, flat nose pliers and bent nose pliers

| Part No. | Description | Wt. (lbs.) | 1       | 5       | 25      |
|----------|-------------|------------|---------|---------|---------|
| 73121    | 5-piece set | 0.6        | \$17.95 | \$15.95 | \$13.95 |

## Cutting Pliers

- Side and flush cutting
- 179902:** • Forged steel
- Cushion grip
- 261789/261810:** • Carbon steel • Vinyl grip

| Part No. | Description      | 1      | 10     | 50     |
|----------|------------------|--------|--------|--------|
| 179902   | 4" leaf spring   | \$3.95 | \$3.59 | \$3.29 |
| 261789   | 5" leaf spring   | 4.95   | 4.49   | 3.95   |
| 261810   | 5" spring return | 4.95   | 4.49   | 3.95   |

## 5.3" Flat and Half-Round Long Nose Pliers

- Stainless steel • Spring return
- Durable rubber handles
- 5.3" length w/ 1.4" plier nose

**35474/35491:** Knurled jaws; **195531:** Smooth jaws

| Part No. | Description    | 1      | 10     | 50     | 250    |
|----------|----------------|--------|--------|--------|--------|
| 35474    | Flat long nose | \$4.95 | \$4.49 | \$3.95 | \$3.49 |
| 195531   | Flat long nose | 4.95   | 4.49   | 3.95   | 3.49   |
| 35491    | Half round     | 4.95   | 4.49   | 3.95   | 3.49   |

**\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above**

# Pliers, Cutters, Drill Bits, Mini-Drill & Stand

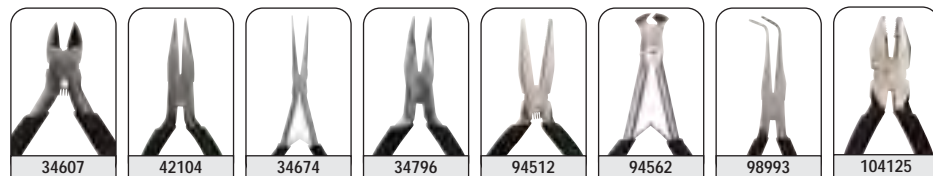
3 LEVELS OF SAVINGS  
NAME BRANDS MOUSE BRANDS FACTORY OVERRUN

## EXIMCORP

### Pliers and Cutters

#### Diagonal, Needle Nose, Nipper, Square, Bent Nose, Sportsmen & Electrician Pliers

- General purpose for picking-up, cutting and wire forming
- Forged steel
- Heat treated
- Insulated grips
- Blister packaged



#### Diagonal Flush Cutters

| Part No. | Description        | 1      | 5      | 25     |
|----------|--------------------|--------|--------|--------|
| 34622    | 4.5" spring loaded | \$4.95 | \$4.49 | \$3.95 |
| 34607    | 5" spring loaded   | 4.95   | 4.49   | 3.95   |
| 34658*   | 5.25" heavy duty   | 5.49   | 4.95   | 4.49   |

#### Needle Oval Nose Pliers with Serrated Jaws

| Part No. | Description    | 1      | 5      | 25     |
|----------|----------------|--------|--------|--------|
| 42104*   | 5.25" standard | \$5.95 | \$5.49 | \$4.95 |

#### Needle Oval Nose Cutters with Serrated Jaws

| Part No. | Description         | 1      | 5      | 25     |
|----------|---------------------|--------|--------|--------|
| 34691    | 4.75" spring loaded | \$4.95 | \$4.49 | \$3.95 |
| 34712*   | 5.25" spring loaded | 5.49   | 4.95   | 4.49   |

#### Needle Oval Long Nose Pliers w/ Serrated Jaws

| Part No. | Description      | 1      | 5      | 25     |
|----------|------------------|--------|--------|--------|
| 34674    | 7" spring loaded | \$6.95 | \$6.25 | \$5.59 |

#### Bent Oval Nose Pliers with Serrated Jaws

| Part No. | Description           | 1      | 5      | 25     |
|----------|-----------------------|--------|--------|--------|
| 34796    | 5" standard bend      | \$4.95 | \$4.49 | \$3.95 |
| 34826    | 6" slim spring loaded | 4.95   | 4.49   | 3.95   |
| 34851*   | 7" standard bend      | 4.95   | 4.49   | 3.95   |

\*EXIMCORP Pliers & Cutters — Enter Web Code EXP

#### Bent Oval Nose Cutters with Serrated Jaws

| Part No. | Description         | 1      | 5      | 25     |
|----------|---------------------|--------|--------|--------|
| 34746    | 5.25" standard bend | \$3.95 | \$3.69 | \$3.39 |
| 34762*   | 7" standard bend    | 4.95   | 4.49   | 3.95   |

#### Square Nose Cutters with Serrated Jaws

| Part No. | Description                   | 1      | 5      | 25     |
|----------|-------------------------------|--------|--------|--------|
| 94512    | 5.5" standard w/o cutter      | \$4.95 | \$4.49 | \$3.95 |
| 94530    | 4.75" spring loaded w/ cutter | 3.95   | 3.69   | 3.39   |
| 94546*   | 5.25" standard straight       | 4.95   | 4.49   | 3.95   |

#### Nipper Nose Pliers Spring Loaded

| Part No. | Description    | 1      | 5      | 25     |
|----------|----------------|--------|--------|--------|
| 94554*   | 4.25" standard | \$3.95 | \$3.69 | \$3.39 |
| 94562    | 5.25" slim     | 5.95   | 5.49   | 4.95   |

#### Sportsmen's Square Straight & Bent Nose Pliers

| Part No. | Description             | 1      | 5      | 25     |
|----------|-------------------------|--------|--------|--------|
| 98976    | 6.25" standard straight | \$4.95 | \$4.49 | \$3.95 |
| 104257*  | 8" standard straight    | 5.95   | 4.95   | 4.49   |
| 98985    | 5.25" standard bent     | 5.95   | 5.49   | 4.95   |
| 98993*   | 7.5" standard bent      | 6.95   | 6.25   | 5.59   |

#### Electricians Pliers with Serrated Jaws

| Part No. | Description                | 1      | 5      | 25     |
|----------|----------------------------|--------|--------|--------|
| 104125*  | 6.25" standard with cutter | \$5.95 | \$5.49 | \$4.95 |
| 104249   | 8.25" standard with cutter | 5.95   | 4.95   | 4.49   |

## Diagonal Wire Cutters

- Jaws are designed for flush cutting
- Cuts component wire up to 1.2mm thick
- 0.5" cutting blade
- 35482: 4.3" Cutter
- Stainless steel
- Durable rubber handles
- 161411: 5" Cutter
- Cuts 0.08mm fine wire
- Insulated handles



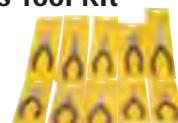
\*Web Code: HAF

| Part No. | Size          | 1      | 10     | 50     |
|----------|---------------|--------|--------|--------|
| 35482    | 4.3"L x 2.1"W | \$6.95 | \$6.49 | \$5.95 |
| 161411   | 5.0"L x 1.8"W | 6.95   | 6.49   | 5.95   |

## Pliers & Cutters Tool Kit

Ten (10) most popular tools in a kit. See (\*) to the left

- 1 each



## EXIMCORP

| Part No. | Description           | 1       | 5       | 25      |
|----------|-----------------------|---------|---------|---------|
| 2100161  | 10 pliers and cutters | \$29.95 | \$26.95 | \$23.95 |

## Variable High-Speed Rotary Tool Kit

- Speed: 6000-32000rpm
- Motor power: 130W
- Collet capacity: 3.2mm
- 28 pcs. sanding/grinding bit set
- Case included, 2.2 lbs.
- Variable speed selector

NEW  
MARKED IN PINK



| Part No. | Description                         | 1       | 5       |
|----------|-------------------------------------|---------|---------|
| 2118977  | Variable high-speed rotary tool kit | \$39.95 | \$36.95 |

## High-Speed Steel Step Drill Bit

Drill multiple holes in thin material with the same bit, faster and easier. Each bit does the work of many drill bit sizes. You can drill holes in most materials such as plastic, metal, and wood up to 1/8" thick.



- Shank size: 3/8"
- 2.4" long

| Part No. | Description          | 1       | 10      | 50      |
|----------|----------------------|---------|---------|---------|
| 229657   | 3/16" - 7/8" 13-step | \$14.95 | \$13.49 | \$11.95 |

\*Drill Bits — Enter Web Code NEJ

## JAMECO BenchPro Pocket Screwdriver

### Phillips & Flat head

\*Web Code: CAQ

- Pen clip for pocket storage



| Part No. | Description                | 1      | 10     | 100    |
|----------|----------------------------|--------|--------|--------|
| 127271   | 6' long pocket screwdriver | \$1.95 | \$1.59 | \$1.39 |

## Impact Punch-Down Tools

- Reversible clip-in blade
- Adjustable (HI-LO) spring-loaded impact mechanism
- Storage bin on handle for spare blade

\*Web Code: PBC

### 175071: Tool with blade

- For 66-type terminals
- Size: 5.2"L x 1.5"W x 1.0"H



### 324014: Tool with blade

- For 110-type terminals
- Size: 5.8"L x 1.7"W x 1.2"H



### 175089: Punch-down blade 110-type terminals

### 324021: Punch-down blade 66-type terminals

| Part No. | Description          | 1       | 5       |
|----------|----------------------|---------|---------|
| 175071   | Tool with 66 blade   | \$29.95 | \$27.95 |
| 324014   | Tool with 110 blade  | 29.95   | 27.95   |
| 175089   | Punch-down blade 110 | 9.95    | 8.95    |
| 324021   | Punch-down blade 66  | 7.95    | 6.95    |

## JAMECO BenchPro Mini-Drill and Stand

This Mini-Drill is excellent for drilling through circuit boards and protoboards. The drill comes with an array of drilling, grinding and sanding attachments. Drill stand is designed to function like a drill press.



2090  
RPMs

| Part No. | Description    | Wt. (lbs.) | 1       | 5       | 25      |
|----------|----------------|------------|---------|---------|---------|
| 26702    | GTT-103A drill | 0.8        | \$34.95 | \$31.95 | \$27.95 |
| 26711    | GTT-104 stand  | 1.8        | 25.95   | 23.95   | 21.95   |

## PC Board Drill Bits

- Shaft diameter: .125"
- Use for drilling holes in glass PC boards



| Part No. | Size | Dia.  | 1      | 10     | 100    |
|----------|------|-------|--------|--------|--------|
| 1919537  | 1/8  | .125" | \$ .75 | \$ .59 | \$ .45 |
| 1919588  | 31   | .120" | .75    | .59    | .45    |
| 1919300  | 32   | .116" | .75    | .59    | .45    |
| 1919609  | 33   | .113" | .75    | .59    | .45    |
| 1919553  | 35   | .110" | .75    | .59    | .45    |
| 1919570  | 38   | .102" | .75    | .59    | .45    |
| 1919502  | 45   | .082" | .75    | .59    | .45    |
| 1919596  | 46   | .081" | .75    | .59    | .45    |
| 1919561  | 48   | .076" | .75    | .59    | .45    |
| 16580    | 59   | .040" | 1.75   | 1.49   | .99    |
| 16619    | 75   | .021" | 1.75   | 1.49   | .99    |

## Mini-Drill Bit Kit

This kit is excellent for drilling through circuit and protoboards precisely.

- Mini drill (26702)
- Mini drill stand (26711)
- Drill bit sizes 48 & 59 (1919561/16580)



| Part No. | Description        | Price   |
|----------|--------------------|---------|
| 2113252  | Mini-Drill Bit kit | \$54.95 |

## JAMECO BenchPro 34-Piece Security Bit Set

These bits match the security fasteners commonly used in today's electronic products.

- Includes:** Torx bits: #6, #8 and #10; Tri-wing bits: #1, #2, #3 and #4; Security hex bits: 5/64", 3/32", 7/64", 1/8", 9/64", 5/32" 3/16" and 1/4"; Security Torx bits: T8, T10, T15, T20, T25, T27, T30, T35 and T40; Spanner bits: 4, 6, 8 and 10mm; Phillips bits: #1, #2, #3 and #4; and 60mm magnetic bit extension that fits 1/4" hex driver



| Part No. | Description               | 1       | 10     |
|----------|---------------------------|---------|--------|
| 223829   | 32-piece security bit set | \$10.95 | \$9.95 |

Our enhanced website offers thousands of datasheets and photos to assist you in finding the products you need.





## Ball-End, Hex Key and Screwdriver Sets

**Bondhus/Felo Products:** Inferior tools cost money when something goes wrong. The cost of removing a stripped or broken screw head from a tight location, or replacing a damaged tool exceeds the cost of purchasing a superior tool in the first place.

- Material: Protanium high torque steel
- Ergonomically designed anti roll handle
- Bondhus: Made in USA; Felo: Made in Germany
- Ball-end inserts quickly into screw head up to 250
- Delivers perfect balance between tip strength and working angle
- Life time warranty

\*Web Code: CAQ

| Part No. | Mfr.     | Description  | 1      | 10     |
|----------|----------|--|--------|--------|
| 34041    | BenchPro | 6-pc. precision screwdriver set (slotted - 3/64", 1/16", 5/64", 5/32", 1/8", 9/64")  | \$2.95 | \$2.59 |
| 34059    | BenchPro | 6-pc. precision screwdriver set (Phillips #0 - 1/16", 5/64", 3/32", #1 - 1/8", 9/64")  | 2.95   | 2.59   |
| 2096229  | Felo     | 6-pc. screwdriver set (slotted - 9/64", 5/32", 7/32", 1/4", Phillips - #1; #2)   | 37.95  | 35.95  |
| 99451    | BenchPro | 6-pc. long neck screwdriver set (slotted - (Dia. x L) 3/32" x 6 5/8", 1/8" x 7 5/8", 5/32" x 9 5/8", Phillips - #00 x 6 5/8"L, #0 x 7 5/8"L, #1 x 9 5/8"L)                                 | 8.95   | 7.95   |
| 226106   | BenchPro | 6-pc. precision 50 mm torx screwdriver set (Torx - T5, T6, torx hex - T7, T8, T9, T10)   | 13.95  | 11.95  |
| 2096350  | Bondhus  | 8-pc. ball-end screwdriver set (.05", 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32")  | 21.95  | 19.95  |
| 2096499  | Bondhus  | 16-pc. folding hex key set (5/64", 1/4", 2mm to 8mm)   | 13.95  | 12.49  |
| 2096173  | Bondhus  | 12-pc. ball-end hex key set (.05", 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4", 5/16"   | 12.95  | 11.95  |
| 261999   | BenchPro | 7-pc. 1000V insulated magnetic screwdriver set (slotted - 2.5mm)   | 15.95  | 14.49  |
| 2096456  | Felo     | 7-pc. 1000V insulated screwdriver set (slotted - 3/32", 1/8", 9/64", 5/32", 7/32", Phillips - #1; #2)  | 32.95  | 29.95  |
| 99565    | BenchPro | 6-pc. screwdriver & plier set (slotted - (Dia. x L) 0.09" x 7 5/8", 0.312 x 9 1/2", Phillips - #2 0.09" x 7 5/8", #0 0.12" x 9 1/2", pliers - micro nipper cutter, micro flat nose pliers) | 12.95  | 11.95  |
| 261842   | BenchPro | 7-pc. SAE nut driver set w/ colored handles (sizes: 3/16", 1/4", 5/16", 11/32", 3/8", 7/16", 1/2")   | 6.95   | 5.95   |
| 226094   | BenchPro | 11-pc. magnetic AWL prec. screwdriver set (slotted - .9, 1.2, 1.4, 1.8, 2.4, 3 mm, Phillips - #00, #0, #1)   | 3.95   | 2.95   |
| 2119005  | BenchPro | 8-pc. ratcheting screwdriver bit set (3-slotted, 3 philips, 1 square)  | 7.95   | 6.95   |
| 2096165  | Felo     | 12-pc. screwdriver bit set w/ screwdriver (slotted - 1/8", 5/32", 7/32", 9/32", POZI - #1, #2; Phillips - #0; #1; #2; Torx - #15; #20)   | 24.95  | 22.95  |



## Automatic Center-Punch Tool

### Adjustable

- Precision instrument
- Alloy steel point
- Knurled steel body



• Size: 5.0"L x 0.5"Dia.

| Part No. | Description       | 1      | 10     |
|----------|-------------------|--------|--------|
| 160282   | Center Punch Tool | \$5.95 | \$5.49 |

## 30 AWG Wire Wrap/Strip Tools

Recommended for use on 0.025" (0.63mm) square posts on 0.100" (2.54mm) center grids. The first 1-1/2 loop on the modified tool has wire insulation while all loops on a regular tool have bare wires.



- Knurled handle for easy grip
- 5" long

| Part No. | Description               | 1       | 5       |
|----------|---------------------------|---------|---------|
| 242801   | Tool (regular)            | \$19.95 | \$18.95 |
| 242798   | Tool (modified)           | 22.95   | 21.95   |
| 242827   | Replacement tip (242801)  | 7.95    | 7.29    |
| 242819   | Replacement tip (242798)  | 7.95    | 7.29    |
| 242835   | Replace stripper assembly | 4.95    | 4.49    |

## Deluxe Precision Knife Set

- Three different knife handles - fine work, medium and heavy duty power grip
- Size: 6.3"L x 2.8"W x 1.4"H

Includes: 13 types of blades



| Part No. | Description        | 1      | 10     | 100    |
|----------|--------------------|--------|--------|--------|
| 72768    | 13 blade knife set | \$8.95 | \$7.95 | \$6.95 |

## 5" Steel Hemostats

- Grade 410 A.I.S.I. stainless steel
- Three locking positions



| Part No. | Cross Ref. No. | Description | 1      | 10     | 100    |
|----------|----------------|-------------|--------|--------|--------|
| 115107   | HEM01          | Straight    | \$3.95 | \$2.95 | \$2.49 |
| 115115   | HEM02          | Curved      | 3.95   | 2.95   | 2.49   |



## Strip-Wrap-Unwrap Tools

- Tool tip made of tempered steel
- Spring steel cutter
- Use with 30 AWG wire on .025" square posts
- No solder necessary, see pg 58 for wire
- Wrap 1 to 2 turns of insulated portion of wire for secure connections
- 4.5" long



\*Web Code: BBC

| Part No. | Product No.      | 1       | 5       |
|----------|------------------|---------|---------|
| 34585    | HSM30 (Modified) | \$49.95 | \$44.95 |
| 236785   | HSR30 (Regular)  | 29.95   | 25.95   |

## 1/4-Watt & 1/2-Watt Resistor & Capacitor Lead Forming Tool

- Watt size indicates appropriate package size
- Bends lead length in 0.05" increments
- Lead spacing: 1/4W: 0.4"-1.5"; 1/2W: 0.5"-1.5"



| Part No. | Description | Size (L" x W") | 1      | 10     |
|----------|-------------|----------------|--------|--------|
| 106884   | 1/4W & 1/2W | 5.4 x 1.5      | \$4.95 | \$4.49 |

## IC Pin Straightener

Straighten bent pins safely and easily w/ Jameco's IC pin straightener.

- Straightens 8/14/16/18/20/24/28/40/42-pin ICs
- Materials: black plastic
- Size: 3.3"L x 1.5"W x 0.4"H

Includes: Ground terminal

| Part No. | Description     | 1      | 10     | 100    |
|----------|-----------------|--------|--------|--------|
| 99363    | IC straightener | \$7.95 | \$6.95 | \$5.95 |

## 24" Joubert Bungee Cord

- Braided jacket cover
- 2.75" steel hook height
- 0.81" steel hook opening
- 0.16" thick PVC coated steel hook
- Blue cord with black coated hook
- Stretches easily to 48"



| Part No. | Product No. | 1     | 10    | 100   |
|----------|-------------|-------|-------|-------|
| 2081668  | JBC24       | \$.75 | \$.69 | \$.59 |

\*Calipers — Enter Web Code PAQ



## Nibbling Tool

- Perfect for cutting, trimming, or notching sheet metal up to 18 AWG
- Time-saver when working on prototyping, chassis, and circuit boards
- Minimum .375" hole required
- Size: 7.8"L



| Part No. | Mfr. P/N | Description   | 1      | 10     |
|----------|----------|---------------|--------|--------|
| 18810    | HT204    | Nibbling Tool | \$7.95 | \$6.95 |
| 29331    | HT204B   | Replace. bit  | 3.95   | 3.55   |

## Metal Dial Calipers

### Choose Metric or Inches

- Measures outside, inside & depth
- Accurate measurements every time
- Easy-to-read dial gauge
- Materials: metal
- Color: silver
- Length: 6" (150mm)



Includes: Fitted plastic storage case

| Part No. | Description (min. reading) | 1       | 5       | 25      |
|----------|----------------------------|---------|---------|---------|
| 116134   | Metric (.02 mm)            | \$25.95 | \$23.95 | \$21.95 |
| 116126   | Inches (.001 inch)         | 25.95   | 23.95   | 21.95   |
| 684449   | Metric/Inches              | 27.95   | 25.95   | 23.95   |

## Digital Display Caliper

### Metric and Inches

- Hardened stainless steel
- Display: inches to 0.001; mm to 0.01
- Instructions for making internal, external, depth & step measurements
- Calipers measure to 6 inches/150mm
- One-year warranty



Includes: Fitted case and 1.5V silver oxide battery (replacement battery, P/N 140783, pg 149)

| Part No. | Description             | 1       | 5       |
|----------|-------------------------|---------|---------|
| 127482   | Digital Display Caliper | \$39.95 | \$36.95 |

## Precision Caliper (Micrometer)

- Precision measurement to 0.0001"
- Measure 0 to 1"
- Sturdy steel construction
- Weight: 7.4 oz.



| Part No. | Description | 1       | 5       |
|----------|-------------|---------|---------|
| 2118969  | Micrometer  | \$19.95 | \$17.95 |

\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above



## T-Handle Reamer Tool

**Excellent for aluminum chassis work**

- For enlarging starter holes on panel mount components from 1/8" to 1/2" diameter
- T-handle for easy rotation of tool
- Handle: 3.3" long, tool: 5.3" long

| Part No. | Description     | 1      | 10     |
|----------|-----------------|--------|--------|
| 151750   | T-handle reamer | \$7.95 | \$6.95 |

## 4-Piece Steel Tweezer Set



- 4 styles of stainless steel tweezers, one self-locking
- Ideal for picking up small components in hard-to-reach places

| Part No. | Description         | 1      | 10     | 100    |
|----------|---------------------|--------|--------|--------|
| 10735    | 4-piece tweezer set | \$5.95 | \$5.49 | \$4.95 |

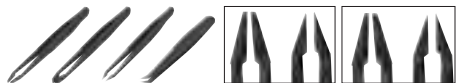
**\*Tweezer Sets — Enter Web Code FAA**

## Tweezers

- 252929: Straight round tapered, fine-point tip, stainless steel
- 253092: Curved fine-point tip
- 252938: Self-closing reverse-action tweezers; medium point tip; stainless steel
- 253113: Fine-point tip, insulated, anti-static
- 252912: Straight fine-point tip

| Part No. | Length | Photo | Price  | 10     | 100    |
|----------|--------|-------|--------|--------|--------|
| 252929   | 4.75"  | 1     | \$2.95 | \$2.49 | \$1.95 |
| 253092   | 4.6"   | 2     | 2.95   | 2.49   | 1.95   |
| 252938   | 4.30"  | 2     | 2.95   | 2.49   | 1.95   |
| 253113   | 4.75"  | 3     | 2.95   | 2.49   | 1.95   |
| 252912   | 4.75"  | 4     | 2.95   | 2.49   | 1.95   |

## 4-Pc. Conductive SMD Tweezer Set



- 4 types of tweezers: fine point, flat head for 4mm SMD chip device, flat head for 8mm SMD chip device, sharp angled tip
- Each is 4.5" long

| Part No. | Description         | 1      | 10     |
|----------|---------------------|--------|--------|
| 172638   | 4-piece tweezer set | \$9.95 | \$8.95 |

## Vacuum Tweezers

Pick & place small parts of all kinds: glass slides, coins, optics, SMDs, film, etc.

- Size: 2.9"L x 0.6"W
- One-year warranty
- Includes: 5 pads sizes 0.14" to 0.4"; 5 straight tips and 2 pieces 45° angle tips

| Part No. | Description             | 1       | 5       |
|----------|-------------------------|---------|---------|
| 88268    | Vacuum pick & place kit | \$39.95 | \$36.95 |



## PLCC & DIP IC Extractors

**\*Web Code: MAB**

- Size: 4.0"L x 2.0"W

| Part No. | Mfr. Part No. | Description | 1      | 10     | 100    |
|----------|---------------|-------------|--------|--------|--------|
| 16766    | HT103B        | PLCC        | \$3.95 | \$3.49 | \$2.95 |
| 16838    | HT103A        | DIP         | 1.65   | 1.49   | 1.25   |

## Anti-Static Heel Strap

- Discharges static without restricting your mobility
- Ground strap: 15.5"L

| Part No. | Description | 1      | 10     | 100    |
|----------|-------------|--------|--------|--------|
| 100328   | Heel strap  | \$5.95 | \$5.49 | \$4.95 |

## Anti-Static Wrist Strap

- Comfortable, adjustable black Velcro wrist strap
  - The coiled grounding cord has banana plug and alligator clips
  - Extended cord: 9' long
- Includes: 1MΩ resistor for added safety

| Part No. | Description | 1      | 10     | 100    |
|----------|-------------|--------|--------|--------|
| 34552    | Wrist strap | \$6.95 | \$6.49 | \$5.95 |

## Anti-Static Work Mats

Make your work environment safe from static discharge! These mats are made of attractive semi-conductive vinyl that provide adequate discharging, yet will not short leads or pins.

| Part No. | Dimensions    | Wt. (lbs.) | 1      | 10     | 100    |
|----------|---------------|------------|--------|--------|--------|
| 10576    | 11.3" x 22"   | 0.7        | \$8.95 | \$7.95 | \$6.95 |
| 10584    | 19.5" x 23.5" | 1.1        | 13.95  | 12.49  | 10.95  |
| 236541   | 23.5" x 27.5" | 1.4        | 25.95  | 22.95  | 19.95  |

**\*Anti-Static — Enter Web Code XAA**

## Field Service Static Kit

This mat folds easily to fit into a field service bag.

- 4 pocket for ESD safe storage
- 10' ground strap and 6' wrist strap share on one ground point
- Size: 2' x 3'

| Part No. | Mfr. Part No. | 1       | 5       | 25      |
|----------|---------------|---------|---------|---------|
| 2113720  | 8PK-AS07-1    | \$17.95 | \$16.49 | \$14.95 |

## Conductive Anti-Static Bags and Foam

**Don't get zapped!**

Protect your investment with these inexpensive bags and ensure a safe work area with our conductive anti-static foam.

| Part No. | Description               | 1     | 10     | 100    |
|----------|---------------------------|-------|--------|--------|
| 249519   | 4" x 6" anti-static bags  | *     | \$ .15 | \$ .10 |
| 249527   | 5" x 7" anti-static bags  | *     | .19    | .12    |
| 78650    | 8" x 10" anti-static bags | .49   | .39    | .29    |
| 13864    | Anti-static foam          | 11.95 | 10.95  | 9.95   |

## 22"L Anti-Static Plastic DIP IC Storage Rails & Rubber Rail Stops

- 29516: .300" rail fits 8, 14, 16, 18, 20 and 22-pin ICs
- 29524: .600" rail fits 24, 28, 36 and 40-pin ICs
- 29583: Rubber stops used to plug plastic rail ends

| Part No. | Cross Ref. No. | Description | 1    | 10   | 100  |
|----------|----------------|-------------|------|------|------|
| 29516    | RIC20          | .300"W rail | ..25 | ..22 | ..19 |
| 29524    | RIC220         | .600"W rail | ..29 | ..25 | ..19 |
| 29583    | RRS            | Rubber stop | ..*  | ..07 | ..05 |

## Standard Adjustable 3X Magnifying Lamp

- 4" Diameter lens
- Maneuverable 30" arm extension
- Lamp tilts & turns in any direction
- Uses 60W incandescent bulb (not included)
- Power requirement: 110VAC/60Hz
- 3-diopter lens • Weight: 2.9 lbs.

| Part No. | Description     | 1       | 5       |
|----------|-----------------|---------|---------|
| 22710    | Magnifying lamp | \$26.95 | \$23.59 |

## 3X, 3-Bulb Magnifying Lamp

- Three 9-watt fluorescent compact bulbs
- Adjustable 3-diopter lens
- 7" x 4.5" rectangular lens
- 47" long arm
- 2 on/off buttons • UL listed
- Color: beige • Weight: 8.15 lbs.

| Part No. | Description          | 1       | 5       |
|----------|----------------------|---------|---------|
| 217517   | Adj. magnifying lamp | \$89.95 | \$84.95 |

## KLIP-ON Deluxe 3X Magnifying Lamps

Ideal for limited workspaces in home or office.

- High quality 3.5" Dia. glass lens w/ dust cover
- Heavy duty 2" spring loaded clamp
- Super bright 13 watt fluorescent bulb (6400 Kelvin) included
- 16" gooseneck-directs light in any directions
- Weight: 2.0 lbs.

| Part No. | Cross Ref. No. | Color | 1       | 5       |
|----------|----------------|-------|---------|---------|
| 1955044  | LUX250W        | White | \$34.95 | \$31.49 |
| 1955052  | LUX250B        | Black | 34.95   | 31.49   |

## Precision 5 Diopter Magnifying Lamp

- 40" arm extension
- 5 diopter lens
- 5" diameter lens
- Weight: 7.1 lbs.
- Power requirement: 110VAC/60Hz

Includes: 22W circuline fluorescent bulb

| Part No. | Description     | 1       | 5       |
|----------|-----------------|---------|---------|
| 197456   | Magnifying lamp | \$99.95 | \$89.95 |

**\*Magnifying Lamps — Enter Web Code DAW**

## 3X Magnifying Lamps

- 5" Dia. lens • 45" extension arm
- Supplied w/ 22-watt circuline tube
- Extra strong, all-metal mounting base with electrical outlet
- New wire clip design permits easy installation
- Metal bulb holder for extra protection
- 3-diopter lens • Weight: 7.3 lbs.
- Power requirement: 110VAC/60Hz

| Part No. | Description | 1       | 5       |
|----------|-------------|---------|---------|
| 100829   | Black lamp  | \$59.95 | \$54.95 |
| 149981   | White lamp  | 59.95   | 54.95   |

**Large Volume Orders Require Special Pricing**  
Call us at 1-800-831-4242

## General Purpose Illuminated 3X Magnifier

- 3.5"Dia. x 7.5"L
- Great for magnifying fine print
- 90mm diameter lens
- Light requires 2 AA batteries (not included, recommend P/N 198707, pg 149)



| Part No. | Description           | 1      | 5      |
|----------|-----------------------|--------|--------|
| 149542   | Illuminated magnifier | \$4.95 | \$4.49 |

## 3X Flexible Neck Magnifier

- 3.5" diameter
- 3x diopter lens
- Flexible gooseneck with workbench clamp
- Arm length: 20"
- Weight: 1.8 lbs.



| Part No. | Description             | 1       | 5      |
|----------|-------------------------|---------|--------|
| 239548   | Flexible neck magnifier | \$10.95 | \$8.95 |

## Glue Gun and Glue Sticks

- Adheres to PCBs, cardboard, wires, metal and cloth
- Silicon nozzle
- Electronic heating
- Trigger action
- Utilizes 100mm long gluesticks (2 sticks included) • Size: 7.3"L x 6.3"W



| Part No. | Description        | 1      | 5      | 25     |
|----------|--------------------|--------|--------|--------|
| 72696    | Glue gun           | \$7.95 | \$7.29 | \$6.49 |
| 78633    | Glue sticks (6/pk) | 2.95   | 2.49   | 1.95   |

## Butane Powered Mini-Trigger Torch

- Adjustable gas flow up to 2500°F
- Self-igniting piezo electric ignition
- Meets child safety requirements
- Slide lock for continuous use
- 60 min. burn time



| Part No. | Mfr.             | Part No. | 1       | 5       |
|----------|------------------|----------|---------|---------|
| 2097483  | MT-70            |          | \$19.95 | \$17.95 |
| 2097491  | 5 1/8 oz. butane |          | 5.49    | 4.95    |

## Table-Top Micro Torch

- Flame temp. approx. 2500°F
- Self-igniting system w/ safety lock
- Safety lock to prevent unintentional ignition and for storage
- Wide stable base, perfect for lab use
- Educational lab burner applications
- Slide lock for continuous use • 60 min. burn time



| Part No. | Mfr.             | Part No. | 1       | 5       |
|----------|------------------|----------|---------|---------|
| 2097467  | MT-30            |          | \$36.95 | \$34.95 |
| 2097491  | 5 1/8 oz. butane |          | 5.49    | 4.95    |

## Magna-Lite Butane Table-Top Torch

- Flame temperature: 2500°F (1300°C)
- Waterproof piezo ignition
- Adjustable flame control
- Refills in 20 seconds with standard butane gas
- Run time: 60 minutes (@ middle flame setting)
- Child-resistant ignition for safety
- Uses: brazing, soldering, heat shrink tubing, industrial maintenance



| Part No. | Mfr.  | Part No. | 1       | 5       |
|----------|-------|----------|---------|---------|
| 1943001  | ML200 |          | \$29.95 | \$26.95 |

## Heat Guns and Strippers

All Master® products are made in the US from superior quality materials and the finest craftsmanship. Heat guns are ideally suited for drying, heating, welding, shrinking, soldering, desoldering, and many other applications where heat is required.

- 2076578: • CFM selectable • Includes 4 attachments & case  
• Weight: 1.0 lb.

- 2076501: • No slip adjustable stand  
• Weight: 4.0 lbs.

- 191943: • 3-pos. switch (hot/off/cool)



| Part No. | Mfr.     | Product No. | Description                     | Watts | Heat Setting (°F) | Temp. (°F max.) | 1       | 5       |
|----------|----------|-------------|---------------------------------|-------|-------------------|-----------------|---------|---------|
| 2117413  | NTE      | HG300-D     | Mini heat gun                   | 350   | 482-662           | 662             | \$19.95 | \$18.95 |
| 254925   | BenchPro | 1001A       | Economical heat gun             | 1000  | 600 & 1000        | 1000            | 39.95   | 35.95   |
| 76865    | BenchPro | G1HG1       | Heat gun/stripper               | 1500  | 600 & 1100        | 1100            | 39.95   | 35.95   |
| 2076578  | Master   | EC-100K     | Economical heat gun (7 & 9 CFM) | 1200  | 500 & 1000        | 1000            | 54.95   | 51.95   |
| 2076501  | Master   | HG-501A     | Industrial heat gun (23 CFM)    | 1680  | 750               | 750             | 114.95  | 104.95  |
| 191943   | Weller   | 6996C       | Industrial heat gun             | 250   | 750-800           | 800             | 139.95  | 129.95  |
| 2007062  | BenchPro | 1004        | Tool kit for 254925             | —     | —                 | —               | 12.95   | 11.95   |
| 217816   | BenchPro | HG018-AO    | Heat shrink attach for 76865    | —     | —                 | —               | 1.95    | 1.69    |
| 217832   | BenchPro | HG018-CO    | Air spreader for 76865          | —     | —                 | —               | 1.95    | 1.69    |

## Butane Powered Cordless Soldering Iron

- Built-in on-off switch
- Can be used as a torch or hot blower
- Length: 8.5"
- Maximum temperature: 450°C (842°F)
- Average use of 40 minutes on a full load



| Part No. | Mfr.     | Part No. | 1       | 5       |
|----------|----------|----------|---------|---------|
| 645520   | GASIRON2 |          | \$29.95 | \$26.95 |

## 16 to 30-Watt Variable Soldering Iron & Stand

- 116572: Length: 7.5"  
36329:  
• Black anodized steel base – 5.3"L x 3.3"W  
• See below for replacement sponge (P/N 134631)  
• Fits most soldering irons .85" dia.



| Part No. | Description            | 1       | 5       | 25      |
|----------|------------------------|---------|---------|---------|
| 116572   | 258VL soldering iron   | \$19.95 | \$17.95 | \$15.95 |
| 36329    | Soldering stand        | 4.95    | 4.45    | 3.95    |
| 134631   | Sponge (for P/N 36329) | 2.95    | 2.59    | 2.29    |

## 25-Watt Thermally Balanced Soldering Iron

The XY200GX is a thermally balanced soldering iron for the professional or hobbyist.

- 120VAC; 6' cord
- 25-watt power consumption
- Interchangeable tips (pg 168)
- UL listed
- Length: 8.0"
- One-year warranty

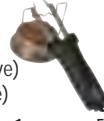
Includes: 1.6mm conical tip

| Part No. | Mfr.      | Part No. | 1       | 5       | 25     |
|----------|-----------|----------|---------|---------|--------|
| 129040   | 200GX-25W |          | \$13.95 | \$11.95 | \$9.95 |

## 50-Watt SMD Tweezer Iron

- 168401 Includes: 0.078" tip  
236460: Replacement sponge  
168583: 0.078" replacement tip (see above)  
168591: 0.59" replacement tip (see above)

| Part No. | Mfr.      | Part No. | For Use With | 1       | 5       |
|----------|-----------|----------|--------------|---------|---------|
| 168401   | TW250ESD  | XY9-60A  |              | \$44.95 | \$39.95 |
| 236460   | 78-744615 | XY9-60A  |              | 2.95    | 2.59    |



## 40-60-Watt High-Performance, Economical Soldering Irons

High-quality soldering irons that are suitable for both professional & do-it-yourself applications.

- Length: 9"
- 120VAC; 6' cord with 3-prong plug
- Tips for P/N 224602: P/N 226018/226000
- Tip for P/N 195223: P/N 226026
- For additional tips see pg 168



| Part No. | Mfr.                  | Part No. | 1       | 5       | 25     |
|----------|-----------------------|----------|---------|---------|--------|
| 224602   | 200PHG-40W            |          | \$11.95 | \$10.95 | \$9.95 |
| 195223   | 200PHG-60W            |          | 12.95   | 11.49   | 10.49  |
| 226018   | 44-240513 conical tip |          | 1.95    | 1.59    | 1.29   |
| 226000   | 44-240517 chisel tip  |          | 1.95    | 1.59    | 1.29   |
| 226026   | 44-240617 chisel tip  |          | 1.95    | 1.59    | 1.29   |

## 35-Watt SMD Tweezer Iron

- Max. temp.: 760°F
- 120VAC
- Max. efficiency ceramic heating elements insures rapid heat-up and instant heat recovery
- Heater insulation exceeds 100MΩ
- Heater power consumption: 35W ea.



Includes: 0.078" tip

| Part No. | Description  | 1       | 5       | 25      |
|----------|--------------|---------|---------|---------|
| 168410   | Tweezer iron | \$54.95 | \$49.95 | \$44.95 |
| 168583   | Tip .078"    | 9.95    | 8.95    | 7.95    |
| 168591   | Tip .590"    | 11.95   | 10.95   | 9.95    |

## Weller® 25 & 35-Watt High-Quality Soldering Irons

- 120VAC @ 60Hz
- Interchangeable heater elements
- Lightweight handle with cushioned grip
- Quick change knurled collar
- Length: 9"

Includes: Power cord & ST3 tip (pg 166)

| Part No. | Mfr. | Part No. | Description           | 1       | 5       |
|----------|------|----------|-----------------------|---------|---------|
| 170587   | WP25 |          | 25W solder iron       | \$39.95 | \$37.95 |
| 192102   | WP35 |          | 35W solder iron       | 47.95   | 45.95   |
| 146608   | ST1  |          | Screwdriver tip 1/16" | 5.95    | 4.95    |
| 146616   | ST3  |          | Screwdriver tip 1/8"  | 5.95    | 4.95    |
| 192145   | ST6  |          | Screwdriver tip .031" | 5.95    | 4.95    |
| 146624   | ST7  |          | Conical tip 1/32"     | 5.49    | 4.49    |



\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above



## Weller® 25 & 40-Watt Marksman Home Project Kits

Perfect for beginners and hobbyists. Includes stand.

- Stainless steel barrel and heat/impact resistant handle
- Ideal for kits, radios and electronics
- Indicator light shows iron is on

2094143

2094143 Includes: Knife and 2 tips

2094160 Includes: Soldering aid tool, 3 tips & solder

| Part No. | Mfr. Part No. | Description  | 1       | 5       |
|----------|---------------|--------------|---------|---------|
| 2094143  | SP23LHPK      | 25W Iron kit | \$19.95 | \$18.95 |
| 2094160  | SP40LK        | 40W Iron kit | 24.95   | 23.49   |

## Weller® 100-Watt Soldering Iron

- "Closed loop" method of controlling max. tip temperature
- Nominal heat-up time with 700°F tip is 110 seconds
- 120VAC @ 60Hz input
- Length: 6" • Weight: 0.7 lbs.



192081



Includes: CT6F7 (0.375" screwdriver tip; 700°F)

| Part No. | Mfr. Part No. | Description           | 1       | 5       |
|----------|---------------|-----------------------|---------|---------|
| 192081   | W100PG        | Solder iron           | \$64.95 | \$59.95 |
| 192090   | CT6F7         | .375" screwdriver tip | 6.95    | 6.29    |

## Weller® 25 to 125-Watt Cordless Soldering Iron Kit

- Self-igniting & instant heat
- Adjustable temperature (25W to 125W)
- Auto switch off
- Visible gas level
- Additional tips can be special ordered
- 2 hours of heat on average tank setting



Includes: Soldering tool, hot blower tip, hot knife tip, 2.4mm and 4.8mm double flat tip, cleaning sponge, storage case and instruction manual

| Part No. | Mfr. Part No. | 1       | 5       |
|----------|---------------|---------|---------|
| 152207   | PSI-100K      | \$89.95 | \$79.95 |

## Weller® 8/11-Watt Battery Powered Soldering Iron

- Heats to working temperature in less than 15 seconds
- White LED light illuminates working surface
- Dual heat settings: 8 watts on low setting (850°F) or 11 watts on high setting (950°F)
- Co-molded grip for comfort grip and protective safety cap turns off power when placed on tool
- Over 150 intermittent solder joints with fresh batteries

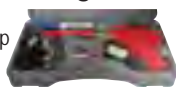


Includes: Iron, tip, 4 "AA" batteries, lead free solder, and tip/wrench stand

| Part No. | Mfr. Part No. | 1       | 5       |
|----------|---------------|---------|---------|
| 1943060  | BP860MP       | \$23.95 | \$19.95 |

## 30 to 100-Watt Soldering Kit

- Includes: • 30W soldering iron
- 100W soldering gun w/ extra tip
- Manual desoldering pump
- Mini third-hand board/ component holder
- Soldering aid tool
- Lead solder
- Size: 13.8"L x 11"W x 3"H



| Part No. | Product No. | Weight   | 1       | 5       |
|----------|-------------|----------|---------|---------|
| 684596   | GSR-600A    | 4.0 lbs. | \$35.95 | \$29.95 |

## WAHL® 25-Watt Cordless Soldering Iron

IsoTip® Power Pro Model #7904

- 900°F tip temperature
- LED indicator light
- Solders 200+ joints or up to 30 minutes of continuous soldering
- Iron performance equivalent to 25-watt iron • Weight: 1.1 lbs.



Includes: Iron, charging stand, battery pack and tips

| Part No. | Description             | 1       | 5       |
|----------|-------------------------|---------|---------|
| 132783   | Power Pro cordless iron | \$69.95 | \$64.95 |

\*Soldering Irons — Enter Web Code QAS

## 20 to 80-Watt Butane Soldering Iron Tool Kit

- Slide switch ignition system
- Adjustable temperature up to 1200°F
- 1.3 hrs of use per refill

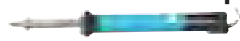
Includes: Solder tip, heat tip, hot knife tip, shrink attachment, cap sponge, stand & case



| Part No. | Description              | 1       | 5       |
|----------|--------------------------|---------|---------|
| 2076615  | Flameless heat soldering | \$84.95 | \$78.95 |

## Electric & Manual Desolder Pumps

- Easily disassembled for cleaning
- Replacement tips available
- 19255: • UL listed
- One-hand operation
- Size: 10.5"L x 1.0"Dia.
- 19166: Size: 7.8"L x 0.8"Dia.
- 1942139: Size: 13.3"L x 1.0"Dia.



19255



19166



1942139

\*Web Code: GAS

| Part No. | Description            | 1       | 5       |
|----------|------------------------|---------|---------|
| 19255    | Electric desolder pump | \$26.95 | \$23.95 |
| 19166    | Manual desolder pump   | 4.95    | 4.49    |
| 1942139  | Manual desolder pump   | 8.95    | 7.95    |
| 19262    | 1 tip for 19255        | 3.95    | 3.49    |
| 22091    | 2 tips for 19166       | 4.49    | 3.95    |
| 307782   | 1 tip for DP100        | 2.49    | 1.95    |

## Weller® 40-Watt Soldering Station

- Lighted on/off switch
- Adjustable power from 5 watts to 40 watts
- 120V @ 60Hz
- Temp. is electronically controlled from 350° to 850°F
- Size: 5.5"L x 4.5"W x 3.5"H • Weight: 1.9 lbs.



\*Web Code: GEJ

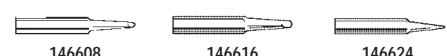
Includes: ST3 1/8" screwdriver tip and manual

| Part No. | Mfr. Part No. | 1       | 5       |
|----------|---------------|---------|---------|
| 146595   | WLC100        | \$59.95 | \$54.95 |

## Weller® Soldering Tips

Replacement Tips for WLC100, WP25 & WP23

\*Web Code: NAB



| Part No. | Mfr. P/N | Description               | 1      | 5      |
|----------|----------|---------------------------|--------|--------|
| 146608   |          |                           |        |        |
| 146616   |          |                           |        |        |
| 146624   |          |                           |        |        |
| 146608   | ST1      | Screwdriver tip 1/16" ... | \$5.95 | \$4.95 |
| 146616   | ST3      | Screwdriver tip 1/8" ...  | 5.95   | 4.95   |
| 192145   | ST6      | Screwdriver tip .031" ... | 5.95   | 4.95   |
| 146624   | ST7      | Conical tip 1/32" ...     | 5.49   | 4.49   |

## Weller® 42-Watt Controlled-Output Soldering Station

- Complete with macro style, low voltage, temp. controlled soldering iron
- Closed loop method of controlling maximum tip temperature for protection of temperature sensitive components
- 120VAC @ 60Hz input
- Power unit housing features impact resistant plastic for durability • Uses PT series tips
- Quick disconnect plug for soldering iron and lighted on/off switch • Weight: 4.0 lbs.
- Separate conductor grounds iron tip and terminates third pin of power cord • Size: 5.9"L x 4.5"W x 3.6"H



| Part No. | Mfr. P/N | Description               | 1        | 5        |
|----------|----------|---------------------------|----------|----------|
| 170552   | WTCP     | Solder station            | \$144.95 | \$136.95 |
| 192161   | TC201T   | Replacement iron          | 79.95    | 72.95    |
| 192170   | PTA6     | Screwdriver tip 600°F ... | 3.95     | 3.49     |
| 192188   | PTA7     | Screwdriver tip 700°F ... | 3.95     | 3.49     |
| 192196   | PTA8     | Screwdriver tip 800°F ... | 3.95     | 3.49     |

\*Soldering/Desoldering Stations — Enter Web Code GEJ

## 45-Watt Analog Display Soldering Station

Grounded Soldering Tip

- 150°C to 480°C (302°F to 896°F)
- Fully grounded
- Insulated ceramic heating element for rapid heat-up and heat recovery
- Heater insulation exceeds 100MΩ
- Zero voltage circuitry eliminating high voltage spike and magnetic field generation
- Size: 4.1"L x 3.5"W x 3.5"H • Weight: 2.5 lbs.



| Part No. | Mfr. Part No. | Description | 1    | 5    |
|----------|---------------|-------------|------|------|
| 156814   | XYB01         | 1/32" tip   | 3.95 | 3.49 |
| 156822   | XYB04         | 1/16" tip   | 3.95 | 3.49 |
| 134631   | SP715         | Sponge      | 2.95 | 2.59 |

## Weller® 50-Watt Analog & Digital Display Soldering Stations

Innovative heater and sensor combination for quick heat-up and rapid temperature recovery.

- Tip temperature offset capability allows user to reset temperature readings to match tip size and style
- Wireless temp. lockout
- Auto power-down after 90 minutes of inactivity • Temp. accuracy: ±9.0°F
- Temperature range: 350°F to 850°F • ESD safe
- Size: 5.9"L x 4.5"W x 3.6"H • Weight: 4.0 lbs.



| Part No. | Mfr. Part No. | Description    | 1        | 5        |
|----------|---------------|----------------|----------|----------|
| 217461   | WES51         | Analog         | \$124.95 | \$121.95 |
| 233533   | WESD51        | Digital        | 169.95   | 159.95   |
| 2082847  | PES51         | Soldering iron | 38.95    | 37.95    |



## 70-80 Watt Soldering Stations

- Input: 110-120VAC @ 60Hz
- Nichrome heating element on soldering iron
- Soldering iron assembly w/ nichrome heating element & K-type thermocouple sensor
- Adjustable knob for temp. setting • Weight: 5.3 lbs.
- Includes: soldering station, soldering stand with cleaning pad, soldering iron, manual



1950711

- 1950711: Analog 70-Watt** • Size: 8"L x 5.2"W x 3.8"H
- LED to indicate power (green), heater on (red)
  - Temp. acc.:  $\pm 3^{\circ}\text{C}$  • Uses model 209 soldering iron
  - Temp. range: 200°C to 450°C (329°F to 842°F)

### 2099180: Digital 80-Watt

★ Web Code: GEJ

- Temp. accuracy:  $\pm 3^{\circ}\text{C}$
- Temp. range: 200°C to 480°C (392°F to 896°F)
- Size: 4.2"W x 3.6"H x 5.0"D • ESD safe
- Uses 108ESD soldering iron assembly

| Part No. | Mfr. Part No. | Description | 1       | 5       |
|----------|---------------|-------------|---------|---------|
| 1950711  | 169           | Analog      | \$99.95 | \$89.95 |
| 2099180  | LF-1600       | Digital     | 89.95   | 79.95   |

## 80-Watt High-Power Stained Glass Soldering Station

- 100-120VAC @ 60Hz or 220-240VAC @ 50Hz
- On/off switch with "power on" indicator light
- Temperature range: 482-923°F (250-500°C)
- Variable power control
- Safety guard iron holder • Cushioned foam grip



NEW  
MARKED IN PINK

| Part No. | Mfr. Part No. | Description | 1       | 5       |
|----------|---------------|-------------|---------|---------|
| 2118467  | LT-80         |             | \$49.95 | \$44.95 |

## Weller® 80-Watt Soldering Station

- 120V @ 60Hz
- Lighted on/off switch
- Adjustable power from 5 to 80 watts
- Temperature is electronically controlled from 350° to 900°F
- Size: 5.5"L x 4.5"W x 3.5"H
- Weight: 2.1 lbs.



2082775

★ Web Code: GEJ

**Includes:** MTG21 1/4" chisel tip and manual

| Part No. | Mfr. Part No. | Description       | 1       | 5       |
|----------|---------------|-------------------|---------|---------|
| 2082775  | WLC200        | Soldering station | \$69.95 | \$65.95 |
| 2082812  | MTG21         | 1/4" chisel tip   | 7.95    | 7.49    |
| 2082821  | MTG22         | 3/8" cone tip     | 8.95    | 8.49    |
| 2082783  | WCC104        | Sponge            | 1.75    | 1.59    |

## Weller® 85-Watt Digital Soldering Station

- Extensive special functions menu allows you to use setback, lockout, standby, auto-off time and more
- Heating element is contained in pencil rather than tip
- Micro pencil with short tip-to-grip (37mm) puts you close to the work
- Iron stand has adjustable tilt angle in 4 positions ranging from 30° to 80° • Includes NT1 tip
- Uses WMP soldering pencil and WDH20 iron stand
- Size: 15.9"L x 10.9"W x 5.8"H • Weight: 7.5 lbs.



★ Web Code: GEJ

| Part No. | Mfr. Part No. | Description | 1        | 5        |
|----------|---------------|-------------|----------|----------|
| 684781   | WD1001        |             | \$309.95 | \$294.95 |

## Weller® 85-Watt Digital Soldering Station

- New WP80 soldering pencil with short tip-to-grip (52mm)
- Barrel can be exchanged with optional longer version to work at standard length (65mm)
- Unique silver heater allows fast, efficient soldering
- Uses WP80 soldering pencil and WDH10 soldering stand
- Size: 15.4"L x 10.2"W x 5.2"H



★ Web Code: GEJ

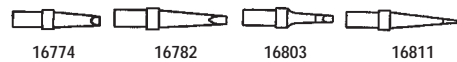
| Part No. | Mfr. Part No. | Description | 1        | 5        |
|----------|---------------|-------------|----------|----------|
| 684772   | WD1002        |             | \$309.95 | \$299.95 |

## Weller® Soldering Tips

### Replacement Tips for WES51 & WESD51

- Tip leakage: less than 2mV
- Tip to ground resist.: less than 2 $\Omega$
- Additional tips can be special ordered

★ Web Code: NAB



| Part No. | Mfr. P/N | Description              | 1      | 5      |
|----------|----------|--------------------------|--------|--------|
| 16774    | ETA      | Screwdriver 1/16"        | \$6.95 | \$6.29 |
| 16782    | ETJ      | Long screwdriver 1/32"   | 6.95   | 6.29   |
| 16803    | ETR      | Narrow screwdriver 1/16" | 6.95   | 6.29   |
| 16811    | ETS      | Long conical 1/64"       | 6.95   | 6.29   |
| 2082783  | WCC104   | Replacement sponge       | 1.75   | 1.59   |

## Replacement Sponges for Legacy Model Soldering Stations

- 134640: For 138-3  
134631: For XY-60D, XY-379 & XYT379-C

| Part No. | Mfr. Part No. | Description | 1      | 5      | 25     |
|----------|---------------|-------------|--------|--------|--------|
| 134640   | SP815         |             | \$1.95 | \$1.75 | \$1.59 |
| 134631   | SP715         |             | 2.95   | 2.59   | 2.29   |

## Desoldering Tips

- Replacement tips for LF7000 P/N 1919107 and LF8000 P/N 1919115



2095496

| Part No. | Description        | 1      | 5      | 25     |
|----------|--------------------|--------|--------|--------|
| 2095496  | Desolder tip 1mm   | \$8.95 | \$7.95 | \$6.95 |
| 2095509  | Desolder tip 1.2mm | 8.95   | 7.95   | 6.95   |
| 2095517  | Desolder tip 1.5mm | 8.95   | 7.95   | 6.95   |

## CHIPQUIK® SMD Removal Kit

- Quick and easy to use
- Potential damage to printed circuit boards is eliminated
- 2.5" of CHIPQUIK® material removes 1250-1500 SMD pins • Uses simple equipment and materials for application & clean-up



| Part No. | Description     | 1       | 5       |
|----------|-----------------|---------|---------|
| 141305   | SMD removal kit | \$15.95 | \$14.49 |

## Vacuum Pen Tools

- ESD safe body
- Picks up components with weight of 1.1 lbs. or less

| Part No. | Description                | 1       | 5       |
|----------|----------------------------|---------|---------|
| 207239   | Handvac tool (4 tips/cups) | \$19.95 | \$17.95 |
| 207247   | Pen vac tool (6 tips/cups) | 39.95   | 33.95   |

## 90-Watt Analog Soldering & Desoldering Station

- Soldering iron: 32VAC output, 90 watt, 200°C to 480°C (400°F to 900°F) temperature range with 1.6mm/1/16" tip
- Input voltage: 100 - 120VAC @ 60Hz
- Desoldering iron (DIA80): 32VAC output, 80 watt, 300°C to 450°C (570°F to 850°F) temp. range, with 1.2mm/0.048" tip • Temp. stability:  $\pm 3^{\circ}\text{C}$  (6°F)
- Pump controlled by a finger actuated thyristor on desoldering iron
- Automatic power down after 15 minutes of idle as indicated by pause LED
- Dials for temperature settings on both soldering and desoldering iron
- Analog readout for vacuum pressure
- Self-contained vacuum pump engineered to provide continuous, maintenance free operation
- Zero voltage switching and full grounded design
- Adjustable temperature without changing tips
- Size: 10.8"W x 12.5"D x 4.1"H



**Includes:** 104A/105A soldering stands, A-2000-1 soldering stand, DIA80 desoldering iron with #44-915412 tip, 210ESD soldering iron with #44-415404 tip, 5pc. 5" high precision tweezers, AX205 5" micro cutting pliers, steel brush/cotton/foam replacement filters, power cable, and instruction manual

| Part No. | Mfr. Part No. | Description | 1        | 5        |
|----------|---------------|-------------|----------|----------|
| 1919107  | LF-7000       |             | \$339.95 | \$319.95 |

## 100-Watt High-Powered Soldering & Desoldering Station

- Input voltage: 100 - 120VAC @ 60Hz
- Soldering iron (heater output, power and temp. range): 32VAC, 100W, 200°C to 450°C (400°F to 850°F)
- Desoldering iron (heater output, power, and temperature range): 32VAC, 80W, 300°C to 450°C (570°F to 850°F)
- Temp. stability:  $\pm 3^{\circ}\text{C}$  (6°F)
- Pump controlled by a finger actuated thyristor on desoldering iron
- Zero voltage switching & fully grounded design
- Adjustable temperature w/o changing tips
- Auto power down after 15 min. of idle
- Detachable soldering iron and desoldering wand
- Self-contained vacuum pump engineered to provide continuous, maintenance free operation
- Digital readout for temperature
- Analog readout for vacuum pressure
- Size: 10.8"W x 12.5"D x 6.1"H



**Includes:** 104A/105A soldering stands, DIA80 desoldering iron, 210ESD soldering iron, steel brush, foam filters, power cord, diagonal wire cutters, 5 high precision tweezers and instruction manual

| Part No. | Mfr. Part No. | Description | 1        | 5        |
|----------|---------------|-------------|----------|----------|
| 1919115  | LF-8000       |             | \$489.95 | \$464.95 |

★ Soldering/Desoldering Stations — Enter Web Code GEJ

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\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

## 80-Watt Desoldering Station

- Input voltage: 100 – 120VAC @ 60Hz
- Heater: 32V, 80W
- Large digital temperature display
- Adjustable temperature without changing tips
- Tip temperature accurate to  $\pm 3^{\circ}\text{C}$  ( $6^{\circ}\text{F}$ )
- Zero voltage switching & fully grounded design makes this unit safe on electro-sensitive devices
- Suction controlled by a finger actuator thyristor located on the desoldering handle
- Self-contained diaphragm vacuum pump engineered to provide continuous, maintenance free operation
- Temperature range:  $300^{\circ}\text{C}$  to  $450^{\circ}\text{C}$  ( $572^{\circ}\text{F}$  to  $842^{\circ}\text{F}$ )
- Size: 7.9"W x 9.3"D x 4.5"H

**Includes:** DIA80 desoldering iron, 2 soldering stands, foam filters, & cleaning brush

| Part No. | Mfr. Part No. | 1        | 5        |
|----------|---------------|----------|----------|
| 1919094  | LF-6000       | \$299.95 | \$284.95 |



## 40 & 80-Watt SMD Rework Stations



- Long-life ceramic heating element
  - High-performance, inexpensive, versatile
  - Thermocouple sensor for stable temperature
  - Rapid heat-up and recovery
- 224629: 40-Watt** • Size: 7.4"L x 5.0"W x 3.3"H  
 • Adjustable temperature:  $482\text{--}842^{\circ}\text{F}$  ( $250\text{--}450^{\circ}\text{C}$ )  
 • 25-watt ceramic element • Weight: 2.6 lbs.
- 2099219: 80-Watt** • Size: 8.8"L x 6.0"W x 4.5"H  
 • Adjustable temperature:  $392\text{--}896^{\circ}\text{F}$  ( $200\text{--}480^{\circ}\text{C}$ )  
 • 40-watt ceramic element • Weight: 4.2 lbs.

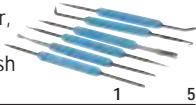
**Includes:** Base power unit, sponge, stand, surface mount tweezer iron, and stand for tweezers

| Part No. | Description     | 1       | 5       |
|----------|-----------------|---------|---------|
| 224629   | 40-watt station | \$89.95 | \$79.95 |
| 2099219  | 80-watt station | 169.95  | 149.95  |
| 168583   | .078" tip       | 9.95    | 8.95    |
| 168591   | .590" tip       | 11.95   | 10.95   |
| 156814   | .03125 conical  | 3.95    | 3.49    |

## Solder Aid Tool Kit

**Includes:** 1 each of chip holder, spacer, reamer, lever, needle, knife, fork shaft, hook and brush

| Part No. | Mfr. Part No. | 1      | 5      |
|----------|---------------|--------|--------|
| 2096000  | GSR-107       | \$5.95 | \$5.49 |



## 30-Watt Solder Tool Kit

**For Beginners**

**Includes:** Soldering iron with stand, long nose pliers, wire strippers, side cutters & sponge

| Part No. | Description                | 1       | 5       |
|----------|----------------------------|---------|---------|
| 358598   | 7-piece tool soldering kit | \$15.95 | \$13.95 |

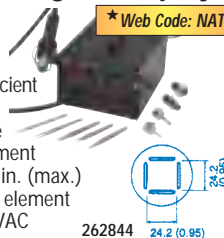


## 420-Watt Hot Air SMD Rework Station with Digital Display

- Incorporates the largest pump in the industry
- Long life ceramic heater insures accurate and sufficient heat where you need it
- Automatic cooling mode protects the heating element
- Airflow capacity: 2.3L/min. (max.)
- 550W nichrome heating element
- Power supply: 100-120VAC or 220-240VAC
- Electronically controlled temp. system with digital readout in preset and actual temperature
- Hot air temp. range:  $100^{\circ}\text{C}$  -  $480^{\circ}\text{C}$  ( $212^{\circ}\text{F}$  -  $896^{\circ}\text{F}$ )
- 25W diaphragm pump • Adjustable air-flow
- Size: 7.3"W x 5.3"H x 9.6"D • Weight: 10.8 lbs.

**Includes:** Precision 5-pc. non-magnetic tweezer set, 4 focus hood tips (single 2.5mm and 4.4mm pipes, P/N 2097547 and 262908) • Blue P/N = Limited Qty Avail.

| Part No. | Mfr. Part No. | Description     | 1        | 5        |
|----------|---------------|-----------------|----------|----------|
| 2097547  | 852D          | SMD rework      | \$299.95 | \$269.95 |
| 262959   | A1136B        | PLCC 20 x 20    | 45.95    | 39.95    |
| 262908   | A1126B        | QFP 14 x 14     | 29.95    | 25.95    |
| 262916   | A1127B        | QFP 17.5 x 17.5 | 29.95    | 25.95    |
| 262852   | A1261B        | QFP 20 x 20     | 45.95    | 39.95    |
| 262844   | A1182B        | BQFP 24 x 24    | 45.95    | 39.95    |
| 262801   | A1129B        | QFP 28 x 28     | 45.95    | 39.95    |
| 262932   | A1258B        | SOP 7.6 x 12.7  | 29.95    | 25.95    |
| 262975   | A1259B        | SOP 13 x 28     | 45.95    | 39.95    |



## Heat Sink & Soldering Aid Kit



**100378:** Heat sink absorbs and dissipates heat during soldering & desoldering of sensitive parts  
**100503 Includes:** Soldering wick, 3 pc. scraper set, acid brush, clip-on heat sink and empty squirt bottle

| Part No. | Description           | 1      | 10     | 100    |
|----------|-----------------------|--------|--------|--------|
| 100378   | Heat sink             | \$4.49 | \$4.45 | \$3.39 |
| 100503   | 7-piece soldering kit | 6.95   | 6.29   | 5.49   |

## Soldering Starter Kit

This kit includes everything you need to get started soldering.

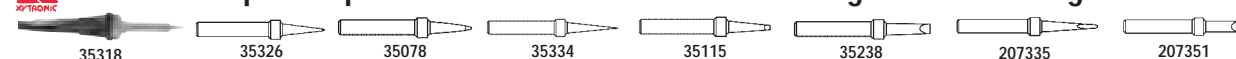
- Includes:**
- Solder stand P/N 36329
  - 25-watt soldering iron P/N 224611
  - Solder pocket pack P/N 170457
  - Replacement sponge P/N 134631
  - Clip on heat sink P/N 159126
  - Solder aid tool kit P/N 100503
  - 4" diagonal wire cutter P/N 179902
  - 5.3" flat long nose pliers P/N 35474
  - 10-30 AWG wire stripper P/N 78992

| Part No. | Description           | 1       | 5       |
|----------|-----------------------|---------|---------|
| 2113228  | Soldering starter kit | \$34.95 | \$31.49 |

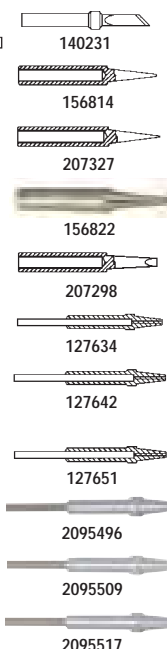


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## Tips & Replacement Parts for XYTronic Soldering and Desoldering Products



| ★ Web Code: NAB |          | For XYTronic Model Numbers (*Legacy Models) |             |                          |              |            |               |               |      |     |        | Pricing |         |         |         |         |         |
|-----------------|----------|---|-------------|--------------------------|--------------|------------|---------------|---------------|------|-----|--------|---------|---------|---------|---------|---------|---------|
| Part No.        | Mfr. P/N | Description                                 | 160D LF7000 | 250W LF7000<br>2005X 169 | 370-C LF349D | 134ESD 379 | 168-3C LF349D | 168-3C LF349D | 900D | 908 | 999SDA | LF-6000 | LF-7000 | LF-6000 | 1       | 10      | 25      |
|                 |          |   |             |                          |              |            |               |               |      |     |        |         |         |         |         |         |         |
| 35318           | XY48     | Assembly - 60W w/ nichrome heater           |             |                          |              |            |               | ✓             |      |     | ✓      |         |         |         | \$29.95 | \$26.95 | \$23.95 |
| 35326           | XY401    | Soldering tip - conical bevel 1/32"         |             | ✓                        |              |            |               | ✓             | ✓    |     | ✓      |         | ✓       |         | 4.49    | 3.95    | 3.59    |
| 35078           | XY402    | Soldering tip - semi-chisel 1/32"           |             | ✓                        |              |            |               | ✓             | ✓    |     | ✓      |         | ✓       |         | 4.49    | 3.95    | 3.59    |
| 35334           | XY403    | Soldering tip - conical sharp 1/64"         |             | ✓                        |              |            |               | ✓             | ✓    |     | ✓      |         | ✓       |         | 4.49    | 3.95    | 3.59    |
| 35115           | XY404    | Soldering tip - conical chisel 1/16"        |             | ✓                        |              |            |               | ✓             | ✓    |     | ✓      |         | ✓       |         | 4.49    | 3.95    | 3.59    |
| 35238           | XY405    | Soldering tip - semi-chisel wide 1/8"       |             | ✓                        |              |            |               | ✓             | ✓    |     | ✓      |         | ✓       |         | 4.49    | 3.95    | 2.95    |
| 207335          | XY406    | Soldering tip - long conical chisel 3/64"   |             | ✓                        |              |            |               | ✓             | ✓    |     | ✓      |         | ✓       |         | 4.49    | 3.95    | 2.95    |
| 207351          | XY410    | Soldering tip - chisel 3/16"                |             | ✓                        |              |            |               | ✓             | ✓    |     | ✓      |         | ✓       |         | 4.49    | 3.95    | 3.59    |
| 140231          | XY430    | Soldering tip - SMD flat pack 7/32"         |             | ✓                        |              |            |               | ✓             | ✓    |     | ✓      |         | ✓       |         | 6.95    | 5.95    | 4.95    |
| 156814          | XYB01    | Soldering tip - sharp conical chisel 1/32"  |             |                          |              | ✓          |               |               |      |     |        |         |         |         | 3.95    | 3.49    | 2.95    |
| 207327          | XYB03    | Soldering tip - conical sharp 1/64"         |             |                          |              | ✓          |               |               |      |     |        |         |         |         | 5.95    | 5.49    | 4.95    |
| 156822          | XYB04    | Soldering tip - conical sharp 1/16"         |             |                          |              | ✓          |               |               |      |     |        |         |         |         | 3.95    | 3.49    | 2.95    |
| 207298          | XYB05    | Soldering tip - semi-wide chisel 1/8"       |             |                          |              | ✓          |               |               |      |     |        |         |         |         | 4.49    | 3.95    | 3.59    |
| 127634          | XYD10    | Desoldering tip - 1.0mm (.0394")            |             |                          |              |            |               |               | ✓    | ✓   | ✓      |         |         |         | 8.95    | 7.95    | 6.95    |
| 127642          | XYD12    | Desoldering tip - 1.2mm (.0472")            |             |                          |              |            |               |               | ✓    | ✓   | ✓      |         |         |         | 8.95    | 7.95    | 6.95    |
| 127651          | XYD15    | Desoldering tip - 1.5mm (.0586")            |             |                          |              |            |               |               | ✓    | ✓   | ✓      |         |         |         | 8.95    | 7.95    | 6.95    |
| 2095496         | XY10     | Desoldering tip - 1.0mm (.0394")            |             |                          |              |            |               |               |      |     |        |         | ✓       | ✓       | 8.95    | 7.95    | 6.95    |
| 2095509         | XY12     | Desoldering tip - 1.5mm (.0472")            |             |                          |              |            |               |               |      |     |        |         | ✓       | ✓       | 8.95    | 7.95    | 6.95    |
| 2095517         | XY15     | Desoldering tip - 1.5mm (.0586")            |             |                          |              |            |               |               |      |     |        |         | ✓       | ✓       | 8.95    | 7.95    | 6.95    |



RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 197.



## Solder Spool & Iron Stand

- 4 pc. spool stand (some assembly required)
- Size: 6"L x 3.5"W x 3.1"H
- Sponge size: 1.6"W x 2.4"L
- Shaft diameter: 0.6"



| Part No. | Description        | Wt. (lbs.) | 1     | 5      | 25            |
|----------|--------------------|------------|-------|--------|---------------|
| 169551   | Spool & iron stand | 2.0        | ..... | \$9.95 | \$8.95 \$7.95 |

**\* Solder Spool Stand — Enter Web Code YAU**

## JAMECO ValuePro Solder Spool Stand

- 12 pc. solder spool stand (some assembly required)
- Size: 3.6"W x 3.9"D x 4.3"H
- Shaft dia.: 0.6"



| Part No. | Description        | Wt. (lbs.) | 1     | 5       | 25            |
|----------|--------------------|------------|-------|---------|---------------|
| 141761   | Solder spool stand | 1.6        | ..... | \$10.95 | \$9.95 \$8.95 |

## Soldering Tip Cleaner with Stand

- For cleaning soldering iron tips without the use of water and sponge
- Metal wool for cleaning
- Rubberized base for stability



| Part No. | Description            | Wt. (lbs.) | 1     | 5      | 25            |
|----------|------------------------|------------|-------|--------|---------------|
| 156777   | Tip cleaner & stand    | 0.5        | ...   | \$4.95 | \$4.49 \$3.95 |
| 160004   | Metal wool replacement | 0.1        | ..... | 2.49   | 2.29 1.95     |

## 150-Watt Solder Pot

- On-off switch on handle
- Input voltage: 120VAC
- Maintains pot temp. of 450°C to 480°C (842°F to 896°F)
- 3-conductor power cord: 5' long
- Pot size: 400mm deep x 400mm Dia.



| Part No. | Product No. | Wt. (lbs.) | 1     | 5               |
|----------|-------------|------------|-------|-----------------|
| 2115418  | RD-7339     | 1.2        | ..... | \$59.95 \$53.95 |

## 300-Watt Solder Pot

### Temperature Regulated Between 420°C and 450°C

- HI/LO temperature switch
- 2 conductor power cord: 5' 9" long
- Holds up to 1 bar of P/N 176057 or 170465, pg 170
- Input volt.: 110VAC @ 2.7A; 50-60Hz
- Size: (unit) 4.8"H x 5.5" Dia. (base)
- Size: (tub) 2.4"Dia. x 1.6"D
- One-year warranty



| Part No. | Description     | Wt. (lbs.) | 1     | 5               |
|----------|-----------------|------------|-------|-----------------|
| 1951625  | 300W solder pot | 5.9        | ..... | \$89.95 \$79.95 |

**\* Solder Pots — Enter Web Code HAW**

## 600-Watt Solder Pot

### Temperature Adjustable

- 2-wire power cord (5'5")
- Temperature: 0°C to 500°C
- Self-regulating temperature
- Input voltage: 110VAC @ 5.5A
- On-off power switch and LED indicator for heat
- Holds up to 3 bars of P/N 176057 or 170465, pg 170
- Size (unit): 6.8"L x 5.5"W x 2.8"H
- Size (tub): 3.9"L x 1.6"D

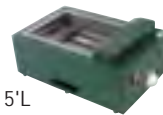


**Includes:** Skimmer and removable dross tray

| Part No. | Description     | Wt. (lbs.) | 1    | 5                 |
|----------|-----------------|------------|------|-------------------|
| 172276   | 600W solder pot | 7.4        | .... | \$149.95 \$139.95 |

## 2000-Watt Solder Pot

- Thermostat control for setting temp. from 50°C to 300°C
- Holds up to 48 bars of P/N 176057 or 170465, pg 170
- 3 conductor pigtail power cord: 5'L
- Input voltage: 110VAC @ 18A, 50-60Hz single phase
- Size (unit): 18.1"L x 11.5"W x 6.0"H
- Size (tub): 12.0"L x 8.0"W x 2.9"H
- One-year warranty



Power cord not included  
Recommend 37997

| Part No. | Description      | Wt. (lbs.) | 1     | 5                 |
|----------|------------------|------------|-------|-------------------|
| 149876   | 2000W solder pot | 23.1       | ..... | \$329.95 \$299.95 |

## 22-Watt Fume Extractor

### Absorbs noxious lead fumes using activated-carbon filter and a high-efficiency fan

- Operate continuously providing filtered air
- Static ground jack • Fuse protected
- Air flow: 115 CFM • Noise: 49dB fan
- 20VAC, 60Hz, 22 watts
- Aerodynamic hood design for effective removal of solder fumes
- Removable carbon-impregnated filter
- Size: 6.4"W x 4.6"D x 7.9"H
- Weight: 4.6 lbs. • One-year warranty



**Includes:** Detachable power cord

| Part No. | Description             | Wt. (lbs.) | 1     | 5               |
|----------|-------------------------|------------|-------|-----------------|
| 120150   | Fume extractor          | 4.6        | ....  | \$49.95 \$45.95 |
| 127183   | Replace. filters (2/pk) | 0.05       | ..... | 9.95 8.95       |

**\* Fume Extractors — Enter Web Code HAR**

## 320-Watt Fume Extractor System Compact & Portable

The HV-2E replaces smaller less powerful counter top extractors and creates more work space in crowded labs & stations. The main unit features strong fan performance with both a pre-filter and standard filter. The internal pump system utilizes a brushless centrifugal fan motor that efficiently and quietly removes fumes.

- 7' long, 6.5" Dia. exhaust tubes
- Lockable metal casters
- Airflow: 175m<sup>3</sup>/hour • Noise level: <50dB
- Voltage: 110V/220V • Size: 13"W x 12"D x 17"H



| Part No. | Mfr. Part No. | Wt. (lbs.) | 1     | 5                 |
|----------|---------------|------------|-------|-------------------|
| 2099235  | HV-2E         | 30.0       | ..... | \$599.95 \$549.95 |

## Weller® 20-Watt Fume Extractor

This fume extractor removes flux fumes from the soldering workbench by drawing smoke through an activated carbon filter. With its exceptionally quiet fan, it can process up to 1.37 cubic meters of air per minute and its stand is adjustable allowing it to be set-up in multiple positions.

- Voltage: 120VAC • Sound level: 45-50dB
- Air consumption: 87-107CFM • ESD safe
- Power consumption: 20W • UL/CUL listed
- Absorption capacity: 1.25 cubic meters to 1.37 cubic meter per minute
- Size: 10"L x 6.5"W x 11"H



| Part No. | Mfr. Part No.           | Wt. (lbs.) | 1     | 5               |
|----------|-------------------------|------------|-------|-----------------|
| 684810   | WSA350                  | 4.2        | ....  | \$54.95 \$52.95 |
| 684828   | WSA350F (carbon filter) | 0.02       | ..... | 7.95 6.95       |

## 42-Watt Combination Soldering Station and Fume Extractor

- Power consumption: 42W @ 650°F (soldering iron)
- Adjustable knob for temperature control: 500°F to 800°F
- Stability @ idle: ±9°F
- Max. air volume: 95/115CFM
- LED indicator for pilot light
- Electronic zero-voltage switching
- Input voltage: 100-120VAC @ 60Hz
- Size: 6.4"W x 7.8"H x 4.7"D



**Includes:** Soldering iron, iron holder, sponge, carbon activated filter, power cord and manual

| Part No. | Mfr. Part No. | Wt. (lbs.) | 1     | 5               |
|----------|---------------|------------|-------|-----------------|
| 183169   | 456DLX        | 5.2        | ..... | \$79.95 \$74.95 |

## Vacuum Base Vise

- Features the patented "split ball" that tilts, turns and rotates through three planes
- Powerful suction pad for quick and easy set-up
- Nylon jaws open 2.25"
- Size: 5.0"L x 4.0"W x 6.3"H
- One-year warranty

262116



**\* Web Code: TAD**

| Part No. | Mfr.     | Product No. | Wt. (lbs.) | 1     | 5               |
|----------|----------|-------------|------------|-------|-----------------|
| 262116   | ValuePro | GV-300      | 3.3        | ...   | \$39.95 \$35.95 |
| 27131    | PanaVise | M381        | 3.3        | ..... | 61.95 59.95     |

## Third Hand Tools

- Two adjustable arms with alligator clip jaws
- Quick and easy rotation
- Sturdy, heavy base



| Part No. | Description        | Size | Wt. (lbs.) | 1    | 5             |
|----------|--------------------|------|------------|------|---------------|
| 72865    | With holder/sponge | 2.0" | 1.4        | ...  | \$8.95 \$7.95 |
| 681002   | With holder/sponge | 3.5" | 1.7        | .... | 9.95 8.95     |
| 26690    | Third hand         | 2.0" | 1.4        | .... | 5.95 5.49     |

## PANAVISE Multi-Purpose Work Center

- Jaws open to 9"
- Double action extra wide self-centering heads allow fast opening and closing; centered weight allows jaws to hold heavier objects; plates can be reversed to close together; reversible jaw pads feature ribbing on one side and a V groove on the other
- Base has three 1/4" countersunk mounting holes
- Overall base diameter is 8.5"



| Part No. | Mfr. Part No. | Wt. (lbs.) | 1     | 5               |
|----------|---------------|------------|-------|-----------------|
| 684852   | 350           | 5.0        | ..... | \$99.95 \$89.95 |

## PANAVISE Electronic Work Center

- Circuit board holder, standard base, tray base mount, solder station, sponges and wire holder included
- Size: 8.5"W x 7.8"H
- One-year warranty



| Part No. | Mfr. Part No. | Wt. (lbs.) | 1     | 5               |
|----------|---------------|------------|-------|-----------------|
| 27060    | 324           | 5.3        | ..... | \$99.95 \$89.95 |

## PANAVISE Vacuum Base Vise

- Head moves through three planes: 210° tilt, 360° turn and rotation
- Grooved jaws are made of reinforced thermal alloy and open up to 2.9"
- Fine/coarse adjustment • Base dia.: 3.4"
- Jaw size: 2"H x 1"W • Height: 7.5"H



| Part No. | Mfr. Part No. | Wt. (lbs.) | 1     | 5               |
|----------|---------------|------------|-------|-----------------|
| 251791   | 209           | 0.8        | ..... | \$39.95 \$35.95 |

**\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above**



# Vises, Soldering Accessories & Tape Products

| 3 LEVELS OF SAVINGS |              |                 |
|---------------------|--------------|-----------------|
| NAME BRANDS         | HOUSE BRANDS | FACTORY OVERRUN |

## PANAVISE PV Jr. Vise

- Jaw size: 1" wide x 2" long; opening: 2.8"
- Jaw heat tolerance: 350°F
- Vertical/horizontal jaw grooves
- Fine/course adjusting knob
- The vise neck tilts, turns and rotates
- Vise height: 6.8" • Weight: 1.4 lbs.
- Base bolt is 4.3" and fits all PanaVise base mounts



| Part No. | Mfr.     | Part No. | 1       | 5       |
|----------|----------|----------|---------|---------|
| 134439   | PVJR 201 |          | \$26.95 | \$24.95 |

## Rapid Assembly Circuit Board Holder

- 8 positions rotating adjustment, six positive lock positions in the vertical plane and height adjustment for quick board rotation speeds
- Holds circuit boards from 1/8" (3.2mm) to 12" (304.8mm) wide and up to 5/32" (4mm) thick
- Arms move independently
- 10" high (from base to top of vertical shaft)

PANAVISE



| Part No. | Mfr. | Part No. | Weight   | 1       | 5       |
|----------|------|----------|----------|---------|---------|
| 684844   | 333  |          | 6.4 lbs. | \$79.95 | \$75.95 |

## Clamp Vise

- No tools needed — finger turn to tighten
- Ball cup allows vise to adjust to any angle
- Size: 10.0"L x 2.5"W



- Nylon jaws open 2"
- Weight: 2.1 lbs.

| Part No. | Mfr.   | Part No. | 1       | 5       |
|----------|--------|----------|---------|---------|
| 127167   | OR-307 |          | \$19.95 | \$17.95 |

## Clear Plastic Vials with White Lid

- Crystal polystyrene vials
- White polyethylene snap-caps
- Uses: hobby, home, education and science/medical labs

NEW  
MARKED IN PINK

2120858



| Part No. | Volume (oz.) | Dia. (inch) | Inside Height (inch) | 1     | 10    | 100   |
|----------|--------------|-------------|----------------------|-------|-------|-------|
| 2120858  | 1.13         | 1           | 2-5/8                | \$.35 | \$.29 | \$.25 |
| 2120866  | 2.50         | 1-1/2       | 2-11/16              | \$.55 | \$.45 | \$.39 |
| 2120874  | 5.00         | 1-7/8       | 3-5/16               | \$.65 | \$.55 | \$.49 |

## Plastic Pump Bottle

- 6 oz. bottle
- ESD compliant
- Plastic bottle with dispenser cover



| Part No. | Mfr. | Part No. | 1      | 10     | 100    |
|----------|------|----------|--------|--------|--------|
| 158131   | 450  |          | \$9.95 | \$8.95 | \$7.95 |

## 3M Tape Products

★ Web Code: TPS

| Part No. | Description                            | Color        | Width (in.) | Length (yards) | Thickness (in.) | Price  |        |        |
|----------|--|--------------|-------------|----------------|-----------------|--------|--------|--------|
|          |  |              |             |                |                 | 1      | 10     | 50     |
| 285587   | Vinyl electrical tape, Tartan 1710, UL | Black        | .75         | 20             | .0070           | \$1.19 | \$1.09 | \$ .99 |
| 285464   | Vinyl electrical tape, Super 33+, UL   | Black        | .75         | 20             | .0070           | 4.95   | 4.79   | 4.49   |
| 652156   | Vinyl electrical tape, Super 35, UL    | Yellow       | .75         | 22             | .0070           | 4.95   | 4.79   | 4.49   |
| 652172   | General purpose masking tape, Scotch   | Tan          | .95         | 60             | .0060           | 4.95   | 4.49   | 3.95   |
| 285907   | Double sided foam tape                 | White        | 1.0         | 4              | .1250           | 15.95  | 14.95  | 13.95  |
| 645159   | Vinyl tape, clean removal              | Red          | 2.0         | 36             | .0051           | 19.95  | 18.95  | 17.95  |
| 651882   | Safety stripe tape                     | Yellow/Black | 2.0         | 36             | .0050           | 29.95  | 28.95  | 27.95  |

## Solder Bars, Rolls and Pocket Packs

★ Web Code: ABD

| Part No. | Manufacturer | % Composition |      |        |        |      | Dia. " | L" | Weight   | Type† | Pricing |        |
|----------|--------------|---------------|------|--------|--------|------|--------|----|----------|-------|---------|--------|
|          |              | Tin           | Lead | Silver | Copper | Gold |        |    |          |       | 1       | 10     |
| 73576    | Kester       | 60            | 40   | —      | —      | —    | 0.031  | —  | 0.5 oz.  | 2     | \$2.79  | \$2.55 |
| 32117    | Kester       | 60            | 40   | —      | —      | —    | 0.031  | —  | 1.0 lb.  | 1     | 25.95   | 22.95  |
| 141786   | Super        | 60            | 40   | —      | —      | —    | 0.031  | —  | 1.1 lbs. | 1     | 19.95   | 17.95  |
| 176057   | ValuePro     | 60            | 40   | —      | —      | —    | —      | 13 | 1.1 lbs. | 4     | 20.95   | 18.95  |
| 94570    | Kester       | 60            | 40   | —      | —      | —    | 0.05   | —  | 1.3 oz.  | 2     | 3.15    | 2.85   |
| 73605    | Kester       | 62            | 36   | 2      | —      | —    | 0.02   | —  | 0.35 oz. | 2     | 2.85    | 2.59   |
| 2119101  | ChipQuik     | 63            | 37   | —      | —      | —    | 0.02   | —  | 4 oz.    | 1     | 6.95    | 6.49   |
| 2119110  | ChipQuik     | 63            | 37   | —      | —      | —    | 0.031  | —  | 4 oz.    | 1     | 6.25    | 5.49   |
| 151474   | Kester       | 63            | 37   | —      | —      | —    | 0.031  | —  | 1 lb.    | 1     | 27.95   | 24.95  |
| 115433   | Kester       | 63            | 37   | —      | —      | —    | 0.039  | —  | 0.14 oz. | 3     | .99     | .75    |
| 170465   | ValuePro     | 96.3          | 37   | —      | 0.7    | —    | —      | 13 | 2.1 lbs. | 4     | 19.95   | 18.95  |
| 668262   | ValuePro     | 96.3          | —    | 3.2    | 0.5    | —    | 0.04   | —  | 7.2 oz.  | 1     | 25.95   | 23.95  |
| 668297   | ValuePro     | 96.3          | —    | 3.2    | 0.5    | —    | 0.04   | —  | 1.1 lbs. | 1     | 49.95   | 44.95  |
| 2119128  | ChipQuik     | 96.5          | —    | 3      | 0.5    | —    | 0.02   | —  | 4 oz.    | 1     | 7.75    | 6.95   |
| 1945858  | Various      | 96.5          | —    | 3.0    | 0.5    | —    | 0.02   | —  | 1.1 lbs. | 1     | 27.95   | 25.95  |
| 2113172  | Kester       | 96.5          | —    | 3.0    | 0.5    | —    | 0.031  | —  | 0.43 oz. | 2     | 2.49    | 2.29   |
| 2119136  | ChipQuik     | 96.5          | —    | 3      | 0.5    | —    | 0.031  | —  | 4 oz.    | 1     | 6.95    | 6.49   |
| 668271   | ValuePro     | 96.5          | —    | 3.5    | —      | —    | 0.04   | —  | 9.6 oz.  | 1     | 29.95   | 26.95  |
| 668318   | ValuePro     | 96.5          | —    | 3.5    | —      | —    | 0.04   | —  | 1.1 lbs. | 1     | 49.95   | 44.95  |
| 668422   | ValuePro     | 96.5          | —    | —      | —      | 3.5  | —      | 13 | 2.2 lbs. | 4     | 49.95   | 44.95  |
| 170457   | Various      | 99.3          | —    | —      | 0.7    | —    | 0.031  | —  | 0.8 oz.  | 2     | 2.49    | 2.25   |
| 668078   | ValuePro     | 99.3          | —    | —      | 0.7    | —    | 0.04   | —  | 7.2 oz.  | 1     | 15.95   | 13.95  |
| 209075   | Various      | 99.3          | —    | —      | 0.7    | —    | 0.031  | —  | 1 lb.    | 1     | 19.95   | 18.95  |
| 668406   | ValuePro     | 99.3          | —    | —      | 0.7    | —    | —      | 13 | 2.2 lbs. | 4     | 34.95   | 31.95  |

\* Organic core † 1. Roll 2. Packet 3. Coil 4. Bar \$ 2.2% Rosin core • Blue Part No. = Limited Quantity Available

## 5' Desolder Braids

★ Web Code: DAG

| Part No. | Manufacturer | Mfr. Part No. | Description                         | Width (ins.) | 1      | 10     |
|----------|--------------|---------------|-------------------------------------|--------------|--------|--------|
| 139951   | Techspray    | 1814-5F       | No-Clean, Military & NASA certified | .030         | \$3.59 | \$3.29 |
| 124126   | Techspray    | 1815-5F       | No-Clean, Military & NASA certified | .055         | 3.59   | 3.29   |
| 124118   | Techspray    | 1816-5F       | No-Clean, Military & NASA certified | .075         | 3.59   | 3.29   |
| 263708   | Techspray    | 1817-5F       | No-Clean, Military & NASA certified | .098         | 3.95   | 3.59   |
| 263695   | Techspray    | 1803-5F       | Pro wick, pure rosin                | .075         | 2.95   | 2.59   |
| 263599   | Techspray    | 1804-5F       | Pro wick, pure rosin                | .098         | 3.29   | 2.95   |
| 263581   | Techspray    | 1511-5F       | Pro wick, pure rosin with bobbin    | .098         | 3.29   | 2.95   |
| 41082    | ValuePro     | GISW20        | Solder braid                        | .079         | 1.89   | 1.69   |
| 41100    | ValuePro     | GISW25        | Solder braid                        | .098         | 1.99   | 1.79   |
| 153462   | ValuePro     | GSR104D       | Solder braid                        | .120         | 2.25   | 1.95   |
| 2113130  | Chemtronics  | 60-3-5        | Solder-wick no clean size 3         | 0.08         | 3.75   | 3.49   |
| 2113148  | Chemtronics  | 60-4-5        | Solder-wick no clean size 4         | 0.11         | 4.49   | 3.95   |
| 2113156  | Chemtronics  | 40-3-5        | Solder-wick, lead free size 3       | 0.08         | 4.25   | 3.75   |
| 2113164  | Chemtronics  | 40-4-5        | Solder-wick, lead free size 4       | 0.11         | 4.75   | 4.25   |

## Acid Brush

- Used for application of reactive solvents



| Part No. | Description        | 1     | 10    | 100   |
|----------|--------------------|-------|-------|-------|
| 153322   | Metal handle, 6" • | \$.65 | \$.55 | \$.45 |

JAMECO ValuePro

## Clip-On Heat Sink

- Absorbs and dissipates heat during soldering and desoldering sensitive parts



| Part No. | Product No. | Size            | 1      | 10     | 100    |
|----------|-------------|-----------------|--------|--------|--------|
| 159126   | HT156       | 2.7"L x 0.7"W • | \$2.95 | \$2.59 | \$2.29 |

## Tech Closeout Center

Small Quantities Priced Near Cost New Products and Accessories That Didn't Make The Catalog Discontinued Consumer Products And a few surprises...



[www.Jameco.com/TechCenter](http://www.Jameco.com/TechCenter)


• RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 197.

## Workshop Chemicals & Heat Sink Compounds

**NEW**  
MARKED IN PINK

\* Shipped via UPS ground to continental U.S. only

| Part No.       | Manufacturer     | Description  | Vol. (oz.) | 1       | 10      |
|----------------|------------------|--|------------|---------|---------|
| <b>2120794</b> | MG Chemicals     | Adhesive epoxy, high temperature encapsulating and potting compound  | 12         | \$44.95 | \$42.95 |
| 615769         | GC Electronics   | Adhesive, sealant, silicon, one part, non corrosive, clear   | 3          | 5.95    | 5.49    |
| 645845         | 3M               | Super adhesive, household glue #6004*  | 1          | 4.95    | 4.49    |
| <b>139900</b>  | Techspray        | Air duster, Envi-Ro-Tech, acusol, 100% HCFC, non-flammable, w/ trigger*  | 8          | 7.95    | 6.95    |
| 263530         | Techspray        | Air duster, Envi-Ro-Tech, acusol, 100% HCFC, non-flammable, w/ trigger*  | 12         | 13.95   | 12.95   |
| 2094207        | Caig/DeoxIT      | Air duster, non-flammable, moisture free, non-ozone depleting, no VOC*   | 10         | 6.95    | 6.49    |
| 2112524        | ChipQuik         | Cleaner & tinner, soldering tip for pre-tinning & tinning*   | —          | 6.49    | 5.95    |
| 2094231        | Caig/DeoxIT      | Cleaner wash, contact evaporates quickly, safe on plastics*  | 10         | 7.95    | 6.95    |
| 118033         | Techspray        | Cleaner, contact, ECONOLINE, CFC free, aerosol can*  | 13.5       | 11.95   | 10.95   |
| 2094223        | Caig/DeoxIT      | Cleaner, contact, quick dry, chemically improves metal electronic connections*   | 0.5        | 10.95   | 9.95    |
| 2110553        | Caig/DeoxIT      | Cleaner, contact, for gold, perfect for new surfaces, prevents corrosion from beginning*                                   | 4g†        | 12.95   | 11.95   |
| 2110545        | Caig/DeoxIT      | Cleaner, electrical contact wipes, 25 individually pkg. cleans lubricates & deoxidizes conn.                               | —          | 14.95   | 13.49   |
| 195004         | Caig/DeoxIT      | Cleaner, contact dioxidizer & preservative, improves electronic connections*   | 5          | 16.95   | 15.95   |
| 2110473        | Caig/DeoxIT      | Cleaner, screen, safe or CRT, DVD, TFT,LCD, touch, plasma, includes micro fiber cloth                                      | 22         | 10.95   | 9.95    |
| 2094215        | Caig/DeoxIT      | Cleaner & conditioner, soldering tip   | 0.5        | 8.95    | 7.95    |
| 616331         | GC Electronics   | Conductive paint, silver print II*   | 0.5**      | 49.95   | 44.95   |
| 2110511        | Caig/DeoxIT      | Conductive pen, silver, works on rubber,epoxy,glass,plastic, repairs membrane buttons*                                     | 1g†        | 10.95   | 9.95    |
| 2110529        | Caig/DeoxIT      | Circuit writer pen, silver based, for drawing & repairing traces, works on rubb.,epoxy,glass,plastic*                      | 5g†        | 18.95   | 16.95   |
| 263716         | Techspray        | Conductive pen, silver ink*  | 0.17       | 26.95   | 23.95   |
| <b>2120559</b> | MG Chemicals     | Conformal coating, acrylic lacquer, protects from ESD*   | 2          | 10.95   | 9.95    |
| 616411         | GC Electronics   | Developer, positive type, concentrate, dilute 9:1*   | 6          | 11.95   | 10.95   |
| 616438         | GC Electronics   | Etching solution, PC board, ferric chloride solution*  | 32         | 24.95   | 22.45   |
| 616446         | GC Electronics   | Etching solution, PC board, ferric chloride solution*  | 128        | 49.95   | 44.95   |
| 139934         | Techspray        | Freeze spray, Envi-Ro-Tech, circuit chiller, CFC and HFC free*   | 8          | 12.95   | 11.95   |
| 652210         | 3M               | Glue tip, scotch-weld tapered mixer tip #4902 for 2 part glue  | —          | 1.49    | 1.19    |
| 615347         | GC Electronics   | Heat sink compound, 100% synthetic base stocks type 44   | 1†         | 7.95    | 7.49    |
| 615355         | GC Electronics   | Heat sink compound, 100% synthetic base stocks type 44   | 16†        | 39.95   | 35.95   |
| 1582541        | Wakefield        | Heat sink compound, silicon based  | 8†         | 23.95   | 21.95   |
| 236823         | ValuePro         | Heat sink compound, silicon based grease   | 0.35†      | 4.95    | 4.49    |
| 167249         | Aavid Thermalloy | Heat sink compound, silicon based grease   | 2†         | 8.95    | 7.95    |
| 169252         | Techspray        | Heat sink compound, silicon free   | 4†         | 23.95   | 21.95   |
| 259151         | NTE              | Heat sink compound, white gel, thermal grease 5 pack   | 0.35†      | 1.95    | 1.75    |
| 615304         | GC Electronics   | Heat sink compound, zinc oxide-filled silicon grease   | 16†        | 29.95   | 26.95   |
| 615312         | GC Electronics   | Heat sink compound, zinc oxide-filled silicon grease   | 0.23†      | 2.95    | 2.65    |
| 615321         | GC Electronics   | Heat sink compound, zinc oxide-filled silicon grease   | 1†         | 7.95    | 7.25    |
| 263572         | Techspray        | Isopropyl alcohol, plastic bottle*   | 16         | 12.95   | 10.95   |
| <b>2117157</b> | Caig/DeoxIT      | Lubricant, use with conductive plastic faders and controls*  | 0.5        | 11.95   | 10.95   |
| 2094240        | Caig/DeoxIT      | DeoxIT® SHIELD SN5 spray lubricant & protectant, for electrical connections*   | 0.5        | 11.95   | 10.95   |
| 645968         | 3M               | Mask, respirator, recommend for use w/ fiberglass insulation/drywall sanding   | —          | 4.95    | 4.49    |
| 2113084        | Chemtronics      | Overcoat pen, green acylic coat,   | 0.16       | 17.95   | 16.49   |
| <b>2117131</b> | Caig/DeoxIT      | Shield, contact cleaner, for severe environments where pollutants are present, -59 to 410°F*                               | 0.5        | 9.95    | 8.95    |
| 481730         | Techspray        | Smoke detector test spray*   | 2          | 3.95    | 3.59    |
| 615806         | GC Electronics   | Solder flux remover & cleaner II, non ODC, aerosol can*  | 16         | 9.95    | 8.95    |
| 118041         | Techspray        | Solder flux remover, ECONOLINE, CFC free, aerosol can*   | 13.5       | 12.95   | 11.75   |
| 1586015        | Chipquik         | Solder flux, tack for rework, no clean, 10cc w/ syringe  | 0.34       | 13.95   | 12.95   |
| 2098216        | Chipquik         | Solder flux, tack for rework, no clean, 10cc w/ syringe, water washable  | 0.34       | 15.95   | 14.95   |
| 481764         | Techspray        | Solder flux, dispensing pen, No-clean, resin & halide free leaves no residue*  | 0.38       | 6.95    | 6.49    |
| 615224         | GC Electronics   | Solder flux, liquid, non corrosive, solution of special rosin in alcohol*  | 2          | 8.95    | 7.95    |
| 615232         | GC Electronics   | Solder flux, liquid, non corrosive, solution of special rosin in alcohol*  | 16         | 24.95   | 22.45   |
| 615494         | GC Electronics   | Solder flux, paste, strong flux for soldering sheet metal & pipes, <b>not for PCBs</b> *                                   | 2.29       | 7.25    | 6.49    |
| 2113113        | Chemtronics      | Solder flux remover pen, precise control, fast drying, can be used with both organic & synthetic low solid no clean fluxes | 0.32       | 10.49   | 9.49    |
| 2113121        | Chemtronics      | Solder flux remover pen, precise control, fast drying, can be used w/ lead free or leaded solder                           | 0.32       | 10.49   | 9.49    |
| 2094258        | Caig/DeoxIT      | Solder flux, rosin paste for electronic applications including PCBs  | 2          | 8.95    | 7.95    |
| <b>2117190</b> | Caig/DeoxIT      | Solder flux, rosin paste for electronic applications including PCBs  | 8          | 29.95   | 26.95   |
| 2113092        | Chemtronics      | Solder flux, rosin dispensing pen, for electronic applications including PCBs*   | 0.32       | 9.95    | 8.95    |
| 2098208        | Chipquik         | Solder paste, 63% SN, 37% PB, no clean 10cc w/ syringe   | 0.34       | 19.95   | 18.95   |
| 2098224        | Chipquik         | Solder paste, 63% SN, 37% PB, no clean 10cc w/ syringe, water washable   | 0.34       | 22.95   | 21.95   |
| 2097441        | Chipquik         | Solder paste, 96.5% SN, 3% AG, .5CU, no clean 10cc w/ syringe  | 0.34       | 21.95   | 20.95   |
| 2098232        | Chipquik         | Solder paste, 96.5% SN, 3% AG, .5CU, no clean 10cc w/ syringe, water washable  | 0.34       | 23.95   | 22.95   |
| 525835         | Chemtronics      | Solder mask, peelable, latex material, squeeze bottle*   | 8          | 12.95   | 11.95   |
| 525851         | Chemtronics      | Cotton swabs, double headed, 6" handle, 100-pack   | —          | 4.95    | 4.49    |

\*\*TroyOunces † Measured by weight  Blue Part No. = Limited Quantity Available



\*Workshop Chemicals — Enter Web Code YAO

\*Heat Sink Compounds — Enter Web Code YBA

\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

# Solderless Breadboards & Digital Labs

3 LEVELS OF SAVINGS  
NAME BRANDS HOUSE BRANDS FACTORY OVERRUN



## Solderless Breadboards



The screen-printed color coordinates are suitable for many types of digital and analog prototyping and circuit design. Larger models feature a heavy-duty aluminum backing with binding posts. Use Jameco's AC/DC breadboard power supply, P/N 77682 (below).

- Accepts most electronic components, including integrated circuits and transistors for digital and/or analog circuitry
- 0.1" hole spacing
- Pins are identified by numbered rows and columns
- Ideal for high frequency and low noise circuits
- One-year warranty

**Attention Educators! Buy jumper wire on pg 173 in bulk and SAVE! (see Solid Hook-up Wire on page 58)**



20670



20758



20812

### WBU5 Series Key Features:

- Horizontal assembly corresponds to the operation flow design of the PC boards for handy operation
- Round hole design makes the electric connection better
- Formed with V-shaped cross-sectional groove, which allows DIP IC pins to be inserted across two parts and to increase the rate of utilization due to small pitch
- Dovetail protrusions and recesses designed to connect two adjacent parts tightly together

### JE Series Key Features:

- Use to breadboard and debug circuit designs
- Low static, plastic body – CMOS safe
- Nickel-plated clips designed to withstand up to 5,000 insertion cycles
- Breadboard strips connect together to form larger working areas
- Components are easily interconnected using 20-28 AWG wire (P/N 19290 & 20080, pg 173)
- Some models feature heavy-duty aluminum backings (20758, 136901, 20812)

★ Web Code: HAC

| Part No. | Cross Ref. No. | Terminal Strips | Bus Strips | Contact Points | Binding Posts | Breadboard Size (L" x W") | Baseplate Size (L" x W") | Weight (lbs.) | Pricing |        |        |        |
|----------|----------------|-----------------|------------|----------------|---------------|---------------------------|--------------------------|---------------|---------|--------|--------|--------|
|          |                |                 |            |                |               |                           |                          |               | 1       | 5      | 50     | 100    |
| 94457    | JE19           | 0               | 1          | 100            | 0             | 6.5 x 0.4                 | —                        | 0.04          | \$3.49  | \$3.19 | \$2.89 | \$2.65 |
| 20601    | JE21           | 1               | 2          | 400            | 0             | 3.3 x 2.1                 | —                        | 0.13          | 5.95    | 5.49   | 4.95   | 4.49   |
| 20670    | JE22           | 1               | 0          | 630            | 0             | 6.5 x 1.4                 | —                        | 0.20          | 6.95    | 6.29   | 5.49   | 4.95   |
| 194299   | JE37           | 1               | 2          | 640            | 0             | 6.9 x 2.4                 | —                        | 0.25          | 8.95    | 7.95   | 6.95   | 5.95   |
| 20723    | JE23           | 1               | 2          | 830            | 0             | 6.5 x 4.0                 | 6.5 x 2.1                | 0.30          | 9.95    | 8.95   | 7.95   | 6.95   |
| 194272   | JE34           | 2               | 3          | 1,560          | 3             | 6.5 x 4.0                 | 8.5 x 4.7                | 0.73          | 18.95   | 16.95  | 14.95  | 12.95  |
| 20758    | JE24           | 2               | 1          | 1,360          | 2             | 6.5 x 3.1                 | 8.5 x 4.0                | 0.60          | 14.95   | 13.49  | 11.95  | 10.95  |
| 136901   | WBU504         | 2               | 3          | 1,855          | 4             | 5.5 x 5.5                 | 7.4 x 6.3                | 0.90          | 19.95   | 17.95  | 15.95  | 13.95  |
| 20774    | JE25           | 2               | 4          | 1,660          | 3             | 6.5 x 4.3                 | 8.5 x 5.1                | 0.80          | 20.95   | 18.95  | 16.95  | 14.95  |
| 20791    | JE26           | 3               | 5          | 2,390          | 4             | 6.9 x 5.8                 | 9.1 x 6.9                | 1.10          | 27.95   | 24.95  | 21.95  | 19.95  |
| 20812    | JE27           | 4               | 7          | 3,220          | 4             | 7.3 x 7.5                 | 9.5 x 8.3                | 1.40          | 33.95   | 29.95  | 26.95  | 24.95  |

† WBU5 and JE series do not interconnect

## Breadboard Pin to Breadboard Pin Test Leads

| Part No. | Description  | 1      | 10     | 50     |
|----------|--|--------|--------|--------|
| 421315   | Breadboard pin to breadboard pin test leads (20 pk), 4 each color-coded (red, yellow, blue, black, white), 24 AWG wire, 5.9" wire length (150mm) | \$9.95 | \$8.95 | \$7.95 |

## Digital Design Lab

- 1580 tie points
- Fixed power supply:  $\pm 5\text{VDC}$  @ 1.0A
- Two 7-segment displays (digit height: 0.3")
- DCV digital multimeter
- One-year warranty

### Solderless Breadboard

- Interconnected nickel-plated tie points, fitting all DIP sizes and all components with AWG #22-30 (0.3-0.8mm) solid leads

### DC Power Supplies

- DC supplies equipped with short-circuit protection
- Variable DC power: 0 to +15V & 0 to -15V @ 0.5A

### Function Generator (5 ranges)

- Frequency ranges: 1Hz–10Hz, 10Hz–100Hz, 100Hz–1kHz, 1kHz–10kHz, 10kHz–100kHz
- Sine wave output: 0–8 Vp-p variable
- Triangle wave output: 6Vp-p fixed
- Square wave output:  $\pm 5\text{V}$  fixed

Includes: Power cord and manual

| Part No. | Description            | Size (W" x D" x H") | Wt. (lbs.) | 1        | 5        |
|----------|------------------------|---------------------|------------|----------|----------|
| 75839    | Digital lab            | 10.6 x 13.3 x 5.0   | 8.1        | \$379.95 | \$359.95 |
| 1952599  | Replacement breadboard | 4.5 x 6.75 x 0.37   | 0.5        | 29.95    | 26.95    |

Our most popular digital lab!



International 115/220VAC Switchable

## Digital/Analog Design Labs

### Solderless Breadboard

- 2712 interconnected nickel-plated tie points, fitting all DIP sizes and all components with AWG #22-30 (0.3-0.8mm) solid leads

### DC Power Supplies

- Fixed DC output: +5VDC @ 1A; -5VDC @ 300mA
- Variable DC output: 0 to +15V & 0 to -15V @ 500mA (P/N 136267) 0 to +15V & 0 to -15V @ 1A (P/N 1919211)
- Input power: 110/220VAC @ 50-60Hz (switchable)

### Function Generator (5 Ranges)

- Frequency ranges: 1Hz–10Hz, 10Hz–100Hz, 100Hz–1kHz, 1kHz–10kHz, 10kHz–100kHz
- Sine & square wave output: 0–8 Vpp variable
- Triangle wave output: 0–6 Vpp variable
- TTL mode output: 5Vpp (P/N 1919211 only)

### Other Features

- 2.5" diameter, 8 $\Omega$ , 25W speaker
- 2 banana sockets, 2 BNC jacks
- 2 pulse switches (2 sets of outputs: A, A, B, B)
- Two 7-segment LED displays (digit height: 0.3")

- 136267: • 2 variable resistors: VR1=1k $\Omega$ , VR2=100k
- 8 data switches
- 8-bit red LEDs with separate input terminals
- One-year warranty
- 1919211: • 16 bit data switches w/ corresponding output points
- 16 red LEDs w/ separate input terminals

Includes: Power cord and manual (both P/Ns 136267 & 1919211); jumper wires (P/N 1919211 only)

| Part No. | Description            | Size (W" x D" x H")  | Wt. (lbs.) | 1        | 5        |
|----------|------------------------|----------------------|------------|----------|----------|
| 136267   | Digital/analog lab     | 12.8 x 9.8 x 3.7     | 8.5        | \$499.95 | \$449.95 |
| 1919211  | Digital/analog lab     | 13.0" x 10.5" x 3.5" | 9.1        | 459.95   | 399.95   |
| 319214   | Replacement breadboard | 6.7 x 6.5 x 0.4      | 0.5        | 39.95    | 35.95    |

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[www.Jameco.com](http://www.Jameco.com)

## AC/DC Power Supply

Ideal for Breadboards on above

With built-in short-proof regulated power supplies.

- Input power: 120/220VAC @ 50-60Hz (switchable)
- Indicator lamps and power fuses
- Just plug in & start to use
- Compact & lightweight
- For both digital and analog circuits
- Compatible with test leads P/N 77842, pg 158
- Size: 7.4"W x 5.5"D x 2.6"H
- Color: beige
- Weight: 5.5 lbs.
- One-year warranty



International 120/220VAC Switchable

| Part No. | Product No.  | 1        | 5        |
|----------|--------------|----------|----------|
| 77682    | Power supply | \$149.95 | \$139.95 |

Output Specifications:  
+5VDC @ 1A;  
-5V @ 300mA fixed;  
0 to +15VDC @ 500mA variable;  
0 to -15VDC @ 300mA variable;  
12-6-0-6-12 tapped VAC,  
300mA fixed

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 197.



## Powered Project Breadboards

- Solderless breadboard with 2420 tie points
- Power switch with light • Outputs are short-circuit protected

Includes: Power cord

136259:

- Fixed power: +5V @ 1A; variable power: 0 to ±15VDC @ 500mA
- Edge plate for non-DIP size components
- Input power: 120/220VAC @ 50-60Hz (switchable)
- Replacement fuse: P/N 103908, pg 41
- One-year warranty
- Breadboard size: 7.4"L x 6.8"W
- Back panel has ground terminal

1942163:

- Input power: 110VAC or 220VAC @ 50-60Hz (switch selectable)
- Triple output power supply: fixed 5VDC @ 1A; 0 to +16VDC @ 500mA (adjustable); 0 to -16VDC @ 500mA (adjustable)
- Grounded case • Overload protection • Fuse protection • Lighted power switch

| Part No. | Description               | Overall Size           | Wt. (lbs.) | 1        | 5        |
|----------|---------------------------|------------------------|------------|----------|----------|
| 136259   | 15VDC @ 500mA             | 9.8"L x 8.0"W x 2.6"H  | 6.8        | \$175.95 | \$159.95 |
| 1942163  | 5VDC @ 1A & 16VDC @ 500mA | 10.3"L x 8.8"W x 3.3"H | 6.0        | 99.95    | 89.95    |



## Bug Boxes

- Box size: 4.9"L x 3.3"W x 0.6"H
- Anti-static plastic • 3 compartments
- Fits in bug cage (P/N 11332, below)
- Designed to store all types of components

2115661/2115670: 30 molded compartments

| Part No. | Description                | 1      | 10     | 100    |
|----------|----------------------------|--------|--------|--------|
| 11375    | 3 ver. & 3 horiz. dividers | \$6.95 | \$6.49 | \$5.95 |
| 2115661  | 3 ver. & 3 horiz. (clear)  | 4.95   | 4.49   | 3.95   |
| 2115670  | 3 ver. & 3 horiz. (white)  | 4.95   | 4.49   | 3.95   |



## Bug Tray

- 10 compartments
- 3.2"L x 0.4"W x 0.4"H ea.
- Tray size: 4.8"L x 3.6"W x 0.5"H
- Fits in bug cage (P/N 11332, below)

| Part No. | Description      | 1      | 10     | 100    |
|----------|------------------|--------|--------|--------|
| 11800    | Divided bug tray | \$4.95 | \$4.49 | \$3.95 |



## Bug Cage

- Holds bug boxes or trays
- Modular and interlocking
- Case size: 5.0"L x 3.9"W x 5.1"H
- Blue Part No. = Limited Quantity Available

| Part No. | Description | Color | 1      | 10     | 100    |
|----------|-------------|-------|--------|--------|--------|
| 11332    | Bug cage    | Blue  | \$8.95 | \$7.95 | \$6.95 |



## Plastic FlipTop Case for SMDs

- 128 compartments
- 8 rows x 16 columns grid
- FlipTop openings on each bin
- Padded cover locks bins closed
- Perfect match to store P/N 156882 SMD resistor assortment, pg 53

Includes: Labels for each bin

| Part No. | Size (L" x W" x H") | 1       | 10      |
|----------|---------------------|---------|---------|
| 164267   | 11.0 x 8.3 x 1.7    | \$49.95 | \$44.95 |



## Plastic FlipTop Boxes

- Clear plastic box with a clear plastic lid and removable dividers

100256: Size: 8.4"L x 4.5"W x 1.4"H

148902: Size: 10.2"L x 4.7"W x 1.6"H

2095955: Size: 7.7"L x 5.3"W x 1.4"H

- 11 individual rounded compartments

| Part No. | Compartment                     | 1      | 10     | 100    |
|----------|---------------------------------|--------|--------|--------|
| 100256   | 18 (1.4" x 1.5" each)           | \$2.29 | \$1.95 | \$1.79 |
| 148902   | 12 (1.7" x 2.3" each)           | 3.95   | 3.49   | 2.95   |
| 2095955  | 11 (10-1.75"x1.5", 1-3.5"x1.5") | 2.49   | 2.29   | 1.95   |

\*Web Code: XAT



136259



1942163



## Resistance & Capacitance Decade Substitution Boxes

Wide-range decade substitution boxes for product design or calibration checks.

- Light durable construction
- Case may be grounded separately
- Three binding posts permit isolated substitutions

Size: 4.7"W x 5.7"H x 1.4"D • Wt: 0.7 lbs. 211668

- 211668: 1% resistance substitution from 1Ω to 11.111110MΩ
- 7 decade ranges of resistance
- Values can be changed in 1Ω increments • @ 3 watts

211676: 5% capacitance substitution from 100pF to 11.111μF

- 5 decade ranges of capacitance
- @ 50VDC

| Part No. | Description | 1       | 5       |
|----------|-------------|---------|---------|
| 211668   | Resistance  | \$99.95 | \$89.95 |
| 211676   | Capacitance | 129.95  | 119.95  |



211676



## Component Cabinets



319600



Drawer (319601) Divider (319611)

319600:

- Drawer can be divided into 3 sections (clear)
- Wall mountable cabinet (ABS black)
- Cabinet size: 6.0"D x 14.7"W x 7.4"H

Includes: 20 clear plastic drawers, 20 dividers and 30 adhesive I.D. labels

319601: 5.5"L x 2.7"W x 1.5"H; 319611: 2.5"W x 1.2"H

2108605:

- Counter-top design (ABS blue)
- Cabinet size: 7.0"D x 17.625"W x 9.75"H

Includes:

- 14 clear plastic drawers in 3 sizes: 10 ea. 6.375"L x 3.375"W x 1.5"H, 3 ea. 6.375"L x 8.75"W x 1.5"H, 1 ea. 6.375"L x 8.75"W x 3.25"H and 20 adhesive I.D. labels



2108605

| Part No. | Description         | 1       | 10      | 100     |
|----------|---------------------|---------|---------|---------|
| 319600   | 20-drawer cabinet   | \$16.95 | \$15.49 | \$13.95 |
| 2108605  | 14-drawer cabinet   | 24.95   | 22.95   | 19.95   |
| 319601   | Drawer for cabinet  | .49     | .45     | .39     |
| 319611   | Divider for cabinet | *       | .12     | .10     |



## Aluminum and Black Phenolic Boxes with Cover



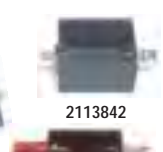
2113797

2113800

2113834

2113826

2114280



2113842

### Die Cast Aluminum Phenolic Boxes w/ Cover (BBE)

\*Web Code: PDC

| Part No. | Mfr. Part No. | Type | Size (L" x W" x H") | Connector Types (A - B) | 1       | 5       | 25      |
|----------|---------------|------|---------------------|-------------------------|---------|---------|---------|
| 2113797  | 3751          | Mini | 1.13 x 1.50 x 0.88  | BNC(F) - BNC(F)         | \$29.95 | \$28.95 | \$27.95 |
| 2113800  | 2391          | A    | 1.13 x 2.25 x 0.88  | BNC(M) - BNC(F)         | 27.95   | 26.95   | 25.95   |
| 2113834  | 3230          | B    | 1.38 x 2.25 x 1.13  | BNC(F) - BNC(F)         | 24.95   | 23.95   | 22.95   |
| 2113826  | 3231          | B    | 1.38 x 2.25 x 1.13  | BNC(F) - BNC(M)         | 29.95   | 28.95   | 27.95   |
| 2114280  | 2902          | C    | 4.25 x 2.64 x 1.71  | BNC(F) - BNC(F)         | 39.95   | 38.49   | 36.95   |
| 2113842  | 3603          | D    | 3.00 x 2.63 x 1.65  | BNC(F) - BNC(M)         | 37.95   | 36.95   | 35.95   |

### Black Phenolic Box w/ Cover

| Part No. | Mfr. Part No. | Size (L" x W" x H") | Connector Type       | 1       | 5       | 25      |
|----------|---------------|---------------------|----------------------|---------|---------|---------|
| 2113851  | 2259          | 1.44 x 1.75 x 0.69  | Post, double binding | \$27.95 | \$26.95 | \$25.95 |

\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

# Enclosures & ShapeLock Prototyping Compound

| 3 LEVELS OF SAVINGS |              |                 |
|---------------------|--------------|-----------------|
| NAME BRANDS         | HOUSE BRANDS | FACTORY OVERRUN |

JAMECO ValuePro

## Enclosures

The prototype builder boards on pg 175 are designed to fit into our ABS plastic and aluminum enclosures, metal cabinets and heavy-duty instrument cases. The pre-cut boards have 2 or 4 mounting holes compatible with the PC board mounting hardware listed on pg 175 (P/N 106551).

**Board description:** Laminated glass epoxy 1/16" thick fire retardant per FR-4 specs. Copper-clad and solder mask one side. Drilled holes: .035" diameter on .080" square pad. Pads spaced on .10" x .10" grid.

See page 55 for Knobs and 108 Hardware

JAMECO  
EXCLUSIVE

★ Web Code: UAL



## ABS Plastic Enclosures

Lid for precision fit (adds 0.4" height). Complete with four screws and lid. All sizes below are interior dimensions.

| Part No. | Cross Ref. No. | Size (L x W x D)   | 1      | 10     | 50     | 100    |
|----------|----------------|--------------------|--------|--------|--------|--------|
| 18922    | H2855          | 3.1" x 2.0" x 0.9" | \$3.49 | \$3.19 | \$2.89 | \$2.49 |
| 18914    | H2853          | 4.9" x 2.5" x 1.5" | 3.95   | 3.59   | 3.19   | 2.75   |
| 18893    | H2851          | 6.0" x 3.5" x 1.9" | 4.95   | 4.49   | 3.95   | 3.49   |
| 18906    | H2852          | 7.5" x 4.3" x 2.3" | 7.49   | 6.79   | 5.95   | 5.49   |

## Die-Cast Aluminum Enclosures

Made from aluminum, an excellent heat-sink, these cases are great for high temp circuits (up to 600°C). Includes screws.

| Part No. | Cross Ref. No. | Size (L x W x D)   | 1      | 10     | 50     | 100    |
|----------|----------------|--------------------|--------|--------|--------|--------|
| 11957    | B5002          | 3.9" x 2.0" x 1.0" | \$5.95 | \$5.49 | \$4.95 | \$4.49 |
| 11965    | B5004          | 4.7" x 2.4" x 1.6" | 8.95   | 8.29   | 7.49   | 6.59   |
| 11973    | B5006          | 7.5" x 4.3" x 2.4" | 15.95  | 14.49  | 12.95  | 11.49  |

## Aluminum Enclosures

The enclosure comes in two pieces which slide together.

| Part No. | Cross Ref. No. | Size (L x W x D)   | 1      | 10     | 50     | 100    |
|----------|----------------|--------------------|--------|--------|--------|--------|
| 11870    | H2300          | 4.0" x 2.0" x 2.8" | \$5.95 | \$5.49 | \$4.95 | \$3.95 |
| 11886    | H2320          | 5.0" x 4.0" x 3.0" | 8.95   | 7.95   | 6.95   | 5.95   |
| 11894    | H2335          | 7.0" x 6.2" x 4.6" | 10.95  | 9.95   | 8.95   | 7.95   |

## Metal Enclosures

- Mounting screws and rubber feet included
- Glossy black textured steel top cover and ivory aluminum base

| Part No. | Cross Ref. No. | Size (L x W x D)   | 1      | 10     | 50     | 100    |
|----------|----------------|--------------------|--------|--------|--------|--------|
| 208901   | B2741A         | 4.0" x 3.3" x 2.2" | \$5.95 | \$5.49 | \$4.95 | \$4.49 |
| 208911   | B2743A         | 5.9" x 5.3" x 3.0" | 8.95   | 7.95   | 6.95   | 6.25   |
| 209350   | B2746A         | 6.3" x 7.8" x 2.5" | 9.95   | 8.95   | 7.95   | 6.95   |
| 208929   | B2744A         | 7.3" x 6.3" x 2.8" | 9.95   | 8.95   | 7.95   | 6.95   |
| 209358   | B2747A         | 7.5" x 9.8" x 3.2" | 14.95  | 13.49  | 11.95  | 10.95  |

## ABS Heavy-Duty Instrument Cases

P/N 18877 includes ventilation and speaker sound slots.

| Part No. | Cross Ref. No. | Size (L x W x D)    | 1      | 10     | 50     | 100    |
|----------|----------------|---------------------|--------|--------|--------|--------|
| 18869    | H2505          | 7.9" x 6.3" x 2.5"  | \$7.95 | \$7.29 | \$6.59 | \$5.95 |
| 18877    | H2507          | 10.0" x 7.5" x 3.1" | 8.95   | 7.95   | 7.49   | 6.95   |

## ABS Enclosures w/ Clear Tops

Includes screws for mounting boards, rubber gasket for a tight seal on your equipment & drilled holes for mounting.

| Part No. | Cross Ref. No. | Size (L x W x D)   | 1      | 10     | 50     | 100    |
|----------|----------------|--------------------|--------|--------|--------|--------|
| 141832   | 203C1          | 4.9" x 3.4" x 2.4" | \$8.95 | \$7.95 | \$7.49 | \$6.95 |
| 141841   | 203D1          | 6.5" x 3.4" x 2.2" | 9.95   | 8.95   | 8.49   | 7.95   |
| 141859   | 203F1          | 7.3" x 5.7" x 3.0" | 11.95  | 10.95  | 9.95   | 8.95   |

BERPAC

## Specialty Enclosures

★ Web Code: TBY

### A Series — with PCB Boss Mounts

- 4-piece design • Interchangeable end panel • 4-insert areas for customized I-plates

| Part No. | Mfr. Part No. | Color | Batt. Holder | Size (L" x W" x H") | 1       | 10      | 100     |
|----------|---------------|-------|--------------|---------------------|---------|---------|---------|
| 373456   | A-42-BK       | Black | None         | 7.12 x 5.00 x 1.62  | \$14.49 | \$12.95 | \$11.49 |
| 373608   | A-42-9V-BK    | Black | 1-9V         | 7.12 x 5.00 x 1.62  | 12.95   | 11.95   | 10.95   |

### C Series — with Pinch-Fit for PCBs

- Simple 2-piece design • 2-insert areas for customized I-plates

| Part No. | Mfr. Part No. | Color | Size (L" x W" x H") | 1      | 10     | 100    |
|----------|---------------|-------|---------------------|--------|--------|--------|
| 675331   | C-4-BK        | Black | 2.13 x 1.38 x 0.58  | \$2.95 | \$2.69 | \$2.39 |
| 694567   | C-8-TR-RD     | Red   | 2.40 x 1.85 x 0.93  | 3.95   | 3.49   | 2.95   |

### H Series — Handheld with Built-in Battery Holder

- Ergonomic handheld design • 5-insert areas for customized I-plates

| Part No. | Mfr. Part No. | Color | Batt. Holder | Size (L" x W" x H") | 1      | 10     | 100    |
|----------|---------------|-------|--------------|---------------------|--------|--------|--------|
| 374635   | H-65-9V-BK    | Black | 1-9V         | 4.94 x 2.75 x 0.94  | \$9.95 | \$8.95 | \$7.95 |
| 374942   | H-67-9V-BK    | Black | 1-9V         | 4.94 x 2.75 x 1.28  | 8.95   | 7.95   | 6.95   |
| 374601   | H-75-4AA-BK   | Black | 4-AA         | 7.20 x 3.65 x 1.20  | 13.95  | 12.49  | 11.95  |

### S Series — Two-piece Standard Enclosures

- 2-piece design • 2-insert areas for customized I-plates

† Insert on top is recessed 0.015" on all models designated with an "I"

| Part No. | Mfr. Part No. | Color | Batt. Holder | Size (L" x W" x H") | 1      | 10     | 100    |
|----------|---------------|-------|--------------|---------------------|--------|--------|--------|
| 675454   | 110-I-BK      | Black | None         | 3.61 x 2.27 x 1.01  | \$3.95 | \$3.49 | \$2.95 |
| 675462   | 111-BK        | Black | None         | 3.61 x 2.27 x 1.51  | 4.49   | 3.95   | 3.49   |
| 675569   | 211-BK        | Black | 1-9V         | 4.10 x 2.60 x 1.51  | 4.49   | 3.95   | 3.49   |
| 675489   | 131-BK        | Black | None         | 4.38 x 3.25 x 1.51  | 5.95   | 5.49   | 4.95   |
| 675577   | 231-BK        | Black | 1-9V         | 4.38 x 3.25 x 1.51  | 4.95   | 4.75   | 4.49   |
| 675500   | 151-BK        | Black | None         | 5.63 x 3.25 x 1.51  | 6.95   | 6.29   | 5.59   |
| 675593   | 251-BK        | Black | 1-9V         | 5.63 x 3.25 x 1.51  | 7.95   | 7.29   | 6.49   |
| 675518   | 153-BK        | Black | None         | 5.63 x 3.25 x 2.51  | 6.95   | 6.29   | 5.59   |
| 675526   | 171-BK        | Black | None         | 6.88 x 4.88 x 1.51  | 9.95   | 8.95   | 7.95   |
| 675534   | 172-BK        | Black | None         | 6.88 x 4.88 x 2.01  | 7.95   | 7.49   | 6.95   |
| 675542   | 173-BK        | Black | None         | 6.88 x 4.88 x 2.51  | 10.95  | 9.95   | 8.95   |
| 675551   | 193-BK        | Black | None         | 9.50 x 6.34 x 2.51  | 15.95  | 13.49  | 11.95  |

Blue Part No. = Limited Quantity Available

RoHS compliant product

+ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 197.



Please Note: Images used are representative. Color and shapes may vary by model.

### M Series — Handheld with Built-in Battery Holder

\* Translucent

- Streamlined handheld design • 5-insert areas for customized I-plates

| Part No. | Mfr. Part No. | Color | Size (L" x W" x H") | 1      | 10     | 100    |
|----------|---------------|-------|---------------------|--------|--------|--------|
| 694815   | M-6-TR-GY     | Gray  | 4.15 x 2.40 x 0.85  | \$9.95 | \$8.95 | \$8.49 |
| 694807   | M-6-TR-GR     | Green | 4.15 x 2.40 x 0.85  | 11.95  | 10.95  | 9.95   |

### R Series — Waterproof Cases to 30 Feet

- Dustproof, corrosion proof, airtight and UV protected with lifetime guarantee
- Auto pressure purge valve, secure lock holes, nut & bolt security & foam-filled

| Part No. | Mfr. Part No. | Color | Size (L" x W" x H") | 1       | 10      | 100     |
|----------|---------------|-------|---------------------|---------|---------|---------|
| 675614   | R-120F        | Black | 7.6 x 5.0 x 2.2     | \$19.95 | \$17.95 | \$15.95 |
| 675622   | R-300F        | Black | 9.59 x 7.42 x 3.98  | 44.95   | 39.95   | 35.95   |

## SHAPELOCK Re-Usable Prototyping Compound

### "Shape-then-lock" Design Plastic

Build your invention now – without machine tools. Create super-strong custom parts, prototypes, molds, servo brackets, robot housings, sculptures, science projects, and more.

- Melts at 160°F • Safely hand moldable
- Becomes rigid at room temperature
- Non-toxic, light weight and paintable



| Part No. | Mfr. Part No. | Description  | 1       | 5       |
|----------|---------------|--------------|---------|---------|
| 2112495  | 01-250        | 250 gram bag | \$14.95 | \$13.49 |
| 2112508  | 01-500        | 500 gram bag | 24.95   | 22.95   |



## General Purpose Prototyping Boards

Select the prototype board that fits your needs from our comprehensive product listing. Prototyping boards with punched holes are convenient, economical tools for assembling circuit components and trying cost-effective alternatives to custom designs.

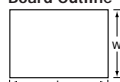
- 0.062" board thickness
- 0.1" hole spacing
- 0.08" pad size
- PCB material epoxy glass
- Plated through pads are double-sided

\*Web Code: LAG

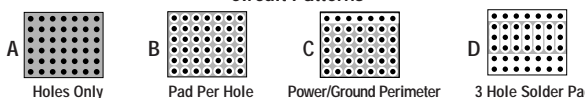
See PCB enclosures on pg 174, and mounting hardware (recommended P/N 106551) below



Board Outline



Circuit Patterns



| Part No. | Cross Ref. No. | Size (W" x L") | Fits Enclosure(s) (see page 174) | Circuit Pattern | Hole Pads      | # Holes x Dia. ↑ | Power/Ground Buses | Connector I/O or Edge | # Mounting Holes x Dia. | Wt. (lbs.) | Pricing |        |        |        |
|----------|----------------|----------------|----------------------------------|-----------------|----------------|------------------|--------------------|-----------------------|-------------------------|------------|---------|--------|--------|--------|
|          |                |                |                                  |                 |                |                  |                    |                       |                         |            | 1       | 10     | 50     | 100    |
| 105102   | 5002PCB        | 1.50 x 3.50    | 11957                            | C               | Single-sided   | 365 x .038"      | 4                  | None                  | 2 x .140"               | .02        | \$6.95  | \$5.95 | \$4.95 | \$3.95 |
| 105100   | 2855PCB        | 1.60 x 2.70    | 18922                            | B               | Single-sided   | 288 x .035"      | None               | None                  | 2 x .115"               | .02        | 5.49    | 4.95   | 4.49   | 3.95   |
| 105129   | 2853PCB        | 2.00 x 4.40    | 18914, 11965                     | C               | Single-sided   | 669 x .038"      | 4                  | None                  | 4 x .140"               | .03        | 8.49    | 7.59   | 6.75   | 5.95   |
| 105111   | 2300PCB        | 2.40 x 3.40    | 11870                            | C               | Single-sided   | 637 x .038"      | 4                  | None                  | 2 x .140"               | .03        | 7.95    | 7.19   | 6.49   | 5.95   |
| 263207   | PCB-463        | 2.40 x 4.10    | —                                | B               | Plated through | 640 x .042"      | None               | None                  | 4 x .120"               | .05        | 8.95    | 7.95   | 6.95   | 5.95   |
| 28178    | PCB1           | 2.42 x 4.10    | —                                | C               | Plated through | 674 x .040"      | None               | None                  | 4 x .120"               | .04        | 6.95    | 6.25   | 5.59   | 4.95   |
| 263215   | PCB-858        | 2.50 x 4.50    | 18914                            | D               | Plated through | 640 x .042"      | None               | None                  | 4 x .120"               | .05        | 8.95    | 7.95   | 6.95   | 5.95   |
| 105153   | 2851PCB        | 3.10 x 5.50    | 18893                            | C               | Single-sided   | 1450 x .035"     | 7                  | None                  | 4 x .140"               | .07        | 9.95    | 8.95   | 7.95   | 6.95   |
| 263223   | PCB-69         | 3.30 x 3.70    | —                                | B               | Single-sided   | 900 x .042"      | None               | None                  | 4 x .120"               | .05        | 8.95    | 7.95   | 6.95   | 5.95   |
| 105137   | 2320PCB        | 3.30 x 4.50    | 11886                            | C               | Single-sided   | 1266 x .035"     | 4                  | None                  | 4 x .140"               | .06        | 8.95    | 7.95   | 6.95   | 5.95   |
| 105162   | 2852PCB        | 3.60 x 7.00    | 18906, 11973                     | B               | Single-sided   | 2225 x .035"     | 4                  | None                  | 4 x .140"               | .10        | 13.95   | 12.49  | 10.95  | 9.95   |
| 21531    | JE417          | 4.20 x 6.50    | —                                | C               | Plated through | 2126 x .042"     | 2                  | D-sub 9/15/25/37      | 8 x .120"               | .12        | 14.95   | 13.49  | 11.95  | 10.95  |
| 206587   | 2746PCB        | 4.30 x 6.80    | 209350                           | C               | Single-sided   | 2550 x .042"     | 5                  | None                  | 4 x .140"               | .07        | 9.95    | 8.95   | 7.95   | 6.95   |
| 21435    | JE401(8001)    | 4.50 x 6.50    | 18869                            | B/D             | Single-sided   | 2360 x .042"     | 2                  | None                  | None                    | .12        | 16.95   | 15.49  | 13.95  | 11.95  |
| 21452    | JE405(8003)    | 4.50 x 6.50    | 18869                            | C               | Single-sided   | 2360 x .042"     | 1                  | None                  | None                    | .12        | 16.95   | 15.49  | 13.95  | 11.95  |
| 206579   | 2743PCB        | 4.60 x 4.30    | 208911                           | C               | Single-sided   | 1684 x .042"     | 5                  | None                  | 4 x .140"               | .07        | 7.95    | 6.95   | 5.95   | 5.29   |
| 105180   | 2505PCB        | 5.00 x 6.50    | 18869                            | C               | Single-sided   | 2829 x .035"     | 7                  | None                  | 8 x .120"               | .13        | 13.95   | 12.49  | 10.95  | 9.95   |
| 28194    | PCB3           | 5.00 x 8.00    | 18877                            | C               | Plated through | 3705 x .042"     | 4                  | Mounting area-I/O     | 4 x .120"               | .17        | 23.95   | 21.49  | 19.95  | 18.95  |
| 21478    | JE407(8006)    | 5.00 x 13.25   | —                                | B               | Plated through | 6063 x .038"     | None               | None                  | 8 x .120"               | .28        | 39.95   | 35.95  | 32.95  | 28.95  |
| 206594   | 2747PCB        | 5.50 x 8.00    | 209358                           | C               | Single-sided   | 3906 x .042"     | 5                  | None                  | 4 x .140"               | 1.0        | 11.95   | 10.95  | 9.95   | 8.95   |
| 105187   | 2507PCB        | 6.10 x 8.00    | 18877                            | C               | Single-sided   | 4771 x .035"     | 7                  | None                  | 8 x .140"               | .21        | 16.95   | 15.49  | 13.95  | 11.95  |
| 263232   | PCB-7038       | 8.30 x 11.9    | —                                | B               | Plated through | 8819 x .042"     | 10                 | 5                     | 4 x .115"               | .40        | 39.95   | 35.95  | 31.95  | 27.95  |

\* PC/XT 8-bit



## Vector Prototyping Boards

| Part No. | Product No. | Size        | Hole Pads    | # Holes x Dia. | # Mntg Holes x Dia. | 1       | 10      | 50      |
|----------|-------------|-------------|--------------|----------------|---------------------|---------|---------|---------|
| 43140    | 64P44XXXP   | 4.50 x 6.50 | Double-sided | 456 x .036"    | 4 x .140"           | \$16.95 | \$14.95 | \$12.95 |
| 52943    | 84P44WE     | 4.50 x 8.50 | Double-sided | 1135 x .036"   | 4 x .140"           | 23.95   | 21.95   | 18.95   |
| 37612    | 169P44XXXP  | 4.50 x 17.0 | Double-sided | 1931 x .036"   | 4 x .140"           | 29.95   | 26.95   | 23.95   |
| 37621    | 169P84WE    | 8.50 x 17.0 | Double-sided | 1931 x .036"   | 4 x .140"           | 29.95   | 26.95   | 23.95   |

106551 20 pieces; PC board mounting hardware (4 spacers, 8 screws and 8 washers) used with all above boards (manufacturer may vary)

# PCB material: phenolic ↑ All 0.042" Diameter hole boards use terminals P/Ns 34147, 34155 and 34163 (below left)

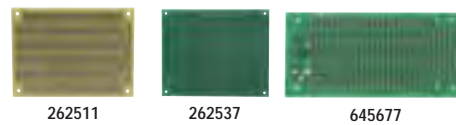
## PT Series Prototyping Boards

\*Web Code: WCG

Accommodates any mixture of 0.3" to 0.6" wide ICs with any number of pins, and any combination of resistors, capacitors, diodes, transistors, etc.

- 4 power buses that connect to a power jack (recommended P/Ns 101178 & 101186, pg 130)

| Part No. | Product No. | Size          | Hole Pads    | # Holes x Dia. | # Mntg Holes x Dia. | 1       | 10      | 50      |
|----------|-------------|---------------|--------------|----------------|---------------------|---------|---------|---------|
| 645677   | PT-35X25    | 3.5"L x 2.5"W | Double-sided | 456 x .036"    | 4 x .140"           | \$16.95 | \$14.95 | \$12.95 |
| 262511   | PT-5X37     | 5"L x 3.7"W   | Double-sided | 1135 x .036"   | 4 x .140"           | 23.95   | 21.95   | 18.95   |
| 262537   | PT-6X49     | 6"L x 4.9"W   | Double-sided | 1931 x .036"   | 4 x .140"           | 29.95   | 26.95   | 23.95   |



## Wire Wrap and Push-In Terminals

For .042" Diameter Holes

- Material: copper alloy
- Prebagged 100 pcs.

34147: Push-In Micro-Klip Terminals

- Overall length: .36"
- Post size: .032" x .045"

34155: Miniwrap Wiring Terminals

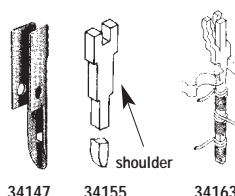
- Shoulder: .045"
- Overall length: .69"
- Post size: .025"Sq.

- Two-prong with square tail for wire wrapping

34163: Klipwrap Wiring Terminals

- Overall length: .83"
- Post size: .025"Sq.

- Three-prong with square tail for wire wrapping



\*Web Code: XCE

| Part No. | Mfr. Part No. | Height Above .062" Board | Length Below .062" Board | 100 pc. units |        |
|----------|---------------|--------------------------|--------------------------|---------------|--------|
|          |               |                          |                          | 1             | 10     |
| 34147    | T421          | .200                     | .097                     | \$8.95        | \$7.95 |
| 34155    | T44           | .065                     | .530                     | 9.95          | 8.95   |
| 34163    | T49           | .200                     | .530                     | 17.95         | 16.49  |



## Pre-Sensitized Circuit Boards & Chemicals

- Pre-coated circuit board
- 1/16" thick

Includes: Instructions

P/N 2097088 Includes:

ER-18 tinnit solution, 8" x 6" x 2" pan, 16 oz. bottle

156751



| Part No. | Mfr. Part No. | Description                                     | 1      | 10     | 50     |
|----------|---------------|---|--------|--------|--------|
| 2097117  | 14-024        | Single sided (2.0"L x 4.0"W)                    | \$4.49 | \$3.95 | \$3.49 |
| 156751   | 14-034        | Single sided (3.0"L x 4.0"W)                    | 4.95   | 4.49   | 3.95   |
| 156742   | 14-234        | Double-sided (3.0"L x 4.0"W)                    | 5.95   | 5.49   | 4.95   |
| 156734   | 12-404*       | 4 oz. positive developer                        | 14.95  | 13.49  | 11.95  |
| 2097070  | 12-500        | Clear copy sheets (8.5" x 11.5") 5 pk.          | 4.49   | 3.95   | 3.49   |
| 2097096  | 12-710        | 4 oz. developer/fixer concentrate               | 7.95   | 7.49   | 6.95   |
| 2097109  | 12-720        | Neg. fast-acting film, 6 sheets, use w/ 2097096 | 7.95   | 7.49   | 6.95   |
| 2097088  | 12-800        | Tin plating copper kit                          | 16.95  | 15.49  | 13.95  |
| 70201    | ER3*          | Dry concentrated etchant (makes 1 pint)         | 5.95   | 5.49   | 4.95   |

\* Shipped via UPS ground – available continental U.S. only

\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above



JAMECO ValuePro

## Prototyping Developer Kit

The Jameco Prototyping Developer Kit includes everything you need to get started with prototyping your own PCB.

- 2 precoated circuit boards, 3" x 4" x 1/16" (P/N 156751, pg 175)
- 4 oz. positive developer concentrate (P/N 156734, pg 175)
- 32 oz. etching solution (P/N 616438, pg 171)

| Part No. | Description               | 1       | 5       |
|----------|---------------------------|---------|---------|
| 2113244  | Prototyping developer kit | \$46.95 | \$42.49 |

## Positive Pre-Sensitized Circuit Boards

1 oz. copper on 1/16" epoxy glass board, UL94V-0 rated. The peel-off coating protects the board while handling or cutting prior to exposure.

| Part No. | Mfr. Part No. | Description  | Size    | 1      | 10     | 50     |
|----------|---------------|--------------|---------|--------|--------|--------|
| 616251   | 21-334        | Single-sided | 4" x 6" | \$5.95 | \$5.49 | \$4.95 |
| 616260   | 21-336        | Single-sided | 6" x 6" | 7.95   | 7.29   | 6.49   |
| 616307   | 21-353        | Double-sided | 6" x 9" | 13.95  | 12.95  | 11.95  |

## Prototype Boards

### Export Design Phenolic Prototype Board

Accommodates all types of IC's, transistor packages and passive parts. Lands and bus bars are tin plated. 0.1" centers.

| Part No. | Mfr. Part No. | Size                            | 1      | 10     | 50     |
|----------|---------------|---------------------------------|--------|--------|--------|
| 616631   | 22-504        | 3 1/8"W x 5 1/16"L x 1/16"Thick | \$5.95 | \$5.49 | \$4.95 |

### Experimenter's Phenolic Prototype Boards

616649: • Copper plated with 94 five-point terminals and two 40-point bus strips

| Part No. | Mfr. Part No. | Size                          | 1       | 10     | 50     |
|----------|---------------|-------------------------------|---------|--------|--------|
| 616673   |               | Single land pattern           | 616649  | 616673 |        |
| 616649   | 22-508        | 2.0"W x 6.0"L x 1/16"Thick    | \$10.95 | \$9.95 | \$8.95 |
| 616673   | 22-512        | 3 3/8"W x 6.75"L x 1/16"Thick | 6.95    | 6.49   | 5.95   |

### Perforated Bare Phenolic Prototype Boards

Unexcelled for prototypes, breadboards, hobby or science projects. Bare phenolic board with no copper clad.

| Part No. | Mfr. Part No. | Size                        | Hole Dia.              | 1      | 10     | 50     |
|----------|---------------|-----------------------------|------------------------|--------|--------|--------|
| 616681   |               | 0.1" spacing                | 616690: 0.265" spacing |        |        |        |
| 616681   | 22-514        | 2.25"W x 6.0"L x 1/16"Thick | .093                   | \$7.49 | \$6.95 | \$6.49 |
| 616690   | 22-516        | 4.5"W x 6.0"L x 1/16"Thick  | .042                   | 5.95   | 5.49   | 4.95   |

### Versa Strip Phenolic Prototype Board

- Alpha-numeric indexing • 0.035" diameter holes
- Silver-plated land patterns • 0.1" centers

| Part No. | Mfr. Part No. | Size                       | 1       | 10      | 50     |
|----------|---------------|----------------------------|---------|---------|--------|
| 616622   | 22-502        | 3.5"W x 6.0"L x 1/16"Thick | \$11.95 | \$10.95 | \$9.95 |

### Plug-In IC Phenolic Prototype Board

ICs plug directly into board. It's 0.1" spacing accepts 14-pin up to 20-pin ICs. Silver plated lands with 24-way card edge connector plug on one end. 0.035" diameter holes.

| Part No. | Mfr. Part No. | Size                        | 1      | 10     | 50     |
|----------|---------------|-----------------------------|--------|--------|--------|
| 616614   | 22-500        | 2.38"W x 4.0"L x 1/16"Thick | \$4.49 | \$4.29 | \$3.95 |

JAMECO ValuePro

## Copper-Plated Blank Circuit Boards

Ideal for hobbyists & students doing prototypes of circuits. Both single and double-sided boards are copper plated.

- 1.6mm (1/16") thick • PCB material: phenolic

| Part No. | Cross Ref. No. | Description  | Fig. | Size (L" x W") | 1      | 10     | 50     |
|----------|----------------|--------------|------|----------------|--------|--------|--------|
| 169279   | PCBS3X6        | Single-sided | 3    | 2.9 x 5.9      | \$2.95 | \$2.69 | \$2.39 |
| 169288   | PCBS6X6        | Single-sided | 2    | 5.9 x 5.9      | 3.95   | 3.49   | 2.95   |
| 169296   | PCBS12X12      | Single-sided | 1    | 11.8 x 11.8    | 9.95   | 8.95   | 7.95   |
| 169309   | PCBD3X6        | Double-sided | 3    | 2.9 x 5.9      | 3.49   | 2.95   | 2.49   |
| 169317   | PCBD6X6        | Double-sided | 2    | 5.9 x 5.9      | 5.95   | 5.49   | 4.95   |
| 169325   | PCBD12X12      | Double-sided | 1    | 11.8 x 11.8    | 19.95  | 17.95  | 15.95  |

Fig. 1

Fig. 2

Fig. 3

\* Web Code: CTB

BELLIN DYNAMIC SYSTEMS, INC.

## Surface Mount Proto Boards

Prototyping SMT circuit boards has been tedious and time-consuming. Now there is an easy, cost-effective and versatile Snap-Apart™ solution from Bellin Dynamic Systems.

- V-groove scoring between elements for smooth straight edges
- Compatible with .100" single or dual row male headers (see pg 74)
- Board thickness: 0.031" • Size: 7.6"L x 5.0"W
- Visit [www.Jameco.com](http://www.Jameco.com) for additional specifications

In use of 215503

215491

\* Web Code: HDS

### Small SMT

| Part No. | Mfr. P/N | Board Description                                       | 1       | 10      |
|----------|----------|---|---------|---------|
| 215491   | B502     | 160 SMT pattern, SOT/SOIC/TSOP/MSOP/DPAK & more         | \$44.95 | \$39.95 |
| 227344   | B513     | 300 SMT pattern, SC90, SOT23-6, 323-6, TSOP, MSOP8, 10+ | 44.95   | 39.95   |

### SOIC

|        |      |  |         |         |
|--------|------|--|---------|---------|
| 215520 | B505 | 60 SOIC SMT pattern, SOIC 8, 14, 16, 24, 32, 40 & more     | \$44.95 | \$39.95 |
| 227310 | B510 | 140 SMT pattern, SOIC 8 to DIP .300" width                 | 44.95   | 39.95   |
| 227328 | B511 | 63 SMT pattern, SOIC n/wd 8, 14, 16, 18, 20 to DIP .300"   | 34.95   | 31.95   |
| 227352 | B514 | 72 SMT pattern, SOIC narrow 8, 14, 16, 18, 20 to DIP .300" | 44.95   | 39.95   |
| 227361 | B515 | 30 SMT pattern, SOIC 24, 28, 32 to DIP .600" width         | 44.95   | 39.95   |

### Fine Pitch Dual Row

|         |      |   |         |         |
|---------|------|---|---------|---------|
| 215503  | B503 | 34 SMT pattern, SOIC/QSOP/TSOP/MSOP/TSSOP & more            | \$44.95 | \$39.95 |
| 227281  | B507 | 40 SMT pattern, SSOP/TSSOP 16, 20, 32, 40 & more            | 44.95   | 39.95   |
| 323889  | B516 | 54 SMT pattern, 0.65mm TSSOP 14/16/20/28 to DIP 0.300/0.600 | 44.95   | 39.95   |
| 323900  | B517 | 18 SMT pattern, 0.4mm/0.5mm/0.65mm TSSOP 48                 | 44.95   | 39.95   |
| 681141  | B536 | 4 SMT pattern, 0.5mm TSSOP 14/16/20/28                      | 34.95   | 31.95   |
| 2097934 | B537 | 54 SMT pattern, 0.4mm TVSOP 14/16 & TSSOP/TVSOP 20/28       | 44.95   | 39.95   |

### Quad

|        |      |  |         |         |
|--------|------|--|---------|---------|
| 323918 | B518 | 2 SMT 0.65mm or 0.8mm pitch, universal QFT adapter for QFP32/40/48/56/64 (by 8-pin increments to 256 pins) | \$29.95 | \$26.95 |
| 336479 | B530 | 8 SMT, 0.65/0.80mm QFP/MLF 8 - 80 pins (even # of pins/side)   | 29.95   | 26.95   |
| 336487 | B531 | 8 SMT, 0.65/0.80mm QFP/MLF 4 - 76 pins (odd # of pins/side)  | 29.95   | 26.95   |
| 336508 | B533 | 8 SMT, 0.40/0.50mm QFP/MLF 4 - 76 pins (odd # of pins/side)  | 29.95   | 26.95   |
| 681150 | B535 | 8 SMT, 0.40/0.50/0.65/0.80mm QFP/TQFP/QFN/MLF/MLP 4/8/12/16/24/28/32 pins                                  | 29.95   | 26.95   |

### PCB Connector (0.062" thick through-hole)

| Part No. | Mfr. P/N | Description  | Price   |
|----------|----------|--|---------|
| 227272   | B506     | 45 SMT pattern, USB A, B/1394/RJ11, 12, 45/DB9 PCB connector | \$29.95 |

### PitchStick™

|        |      |  |         |
|--------|------|--|---------|
| 227299 | B508 | 20 SMT pattern, 48 inline pads, metric/rare pitches    | \$29.95 |
| 681133 | B534 | 2 SMT pattern, 48 inline pads, 19.69/25.59 mil pitches | 34.95   |

### Kit

|        |         |  |          |
|--------|---------|--|----------|
| 681205 | KIT-302 | 1 each of B504, B505, B507, B508, B510, B513, B514, B515, B516, B517, B518, B519, B535, B536, B537 & 3 of B500 | \$399.95 |
|--------|---------|--|----------|

### Development Board

- Six slots for DC regulators • "Star Ground" points for non-isolated supplies
- Marked referencing: chassis, earth or circuit common

| Part No. | Mfr. Part No. | 1       | 10      |
|----------|---------------|---------|---------|
| 2097942  | B500          | \$44.95 | \$39.95 |

## Bare Copper Circuit Boards – Single Sided

1 oz. copper on base of either fiberglass or reinforced epoxy board.

| Part No. | Mfr. Part No. | Size              | 1      | 10     | 50     |
|----------|---------------|-------------------|--------|--------|--------|
| 616471   | 22-250        | 3" x 5" x 1/16"   | \$3.95 | \$3.59 | \$3.29 |
| 616489   | 22-260        | 4" x 6" x 1/16"   | 4.49   | 3.95   | 3.49   |
| 616497   | 22-261        | 6" x 6" x 1/16"   | 5.49   | 4.95   | 4.49   |
| 616500   | 22-263        | 6" x 9" x 1/16"   | 5.95   | 5.49   | 4.95   |
| 616518   | 22-264        | 8" x 10" x 1/16"  | 9.95   | 8.95   | 7.95   |
| 616534   | 22-268        | 11" x 14" x 1/16" | 17.95  | 16.95  | 15.95  |

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That Requires Special Pricing?  
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## Prototyping Boards

★ Web Code: ADS

SchmartBoard™ is the only prototyping system that makes it possible for anyone to hand solder surface mount components. Whether SOIC, QFP, QFN or even BGA you can easily, flawlessly and quickly hand solder it.



### Thru Hole Boards

| Part No. | Mfr. Part No. | Description  | 1      | 5      |
|----------|---------------|--|--------|--------|
| 1537580  | 201-0001-01   | 2"x2", 0.1" center spacing w/ 0.05" offset, 12 ground holes  | \$5.95 | \$5.49 |
| 2116912  | 201-0302-01   | 4"x4", 0.1" center spacing w/ 0.05" offset, 2 columns, power & ground holes (75% w/ offset traced row of holes and 25% untraced holes) | 14.95  | 13.95  |

### Discrete Surface Mount Boards

|         |             |  |        |        |
|---------|-------------|--|--------|--------|
| 2116980 | 202-0034-01 | 0201/0603/0805/1206/1210/1608/1812/2010/2512 discrete SMT in case size A/B/C                           | \$9.95 | \$8.95 |
| 2116998 | 202-0035-01 | SOT23-3/5/6/ SC70-5/6/ DPAK/ D2PAK/ SOT223/ TO-263-7/ SOT89/ 8085/1206 discrete in case size A/B/C/D/E | 9.95   | 8.95   |

### SO/SOP Boards

|         |             |   |        |        |
|---------|-------------|---|--------|--------|
| 1537635 | 202-0004-01 | 2"x2", supports up to 56-pin SOIC w/ 0.05" pitch, 20 pcs. of 0603 package, 12 ground holes  | \$9.95 | \$9.49 |
| 2116947 | 202-0007-01 | 2"x2", supports up to 72-pin SO/ SOP/ QSOP/ SSOP/ TSSOP/ PSSOP ICs w/ 0.50mm pitch, 43 pcs. of 0603 & 8 pcs. of 0805 packages, 6 ground holes | 9.95   | 8.95   |
| 2116939 | 202-0006-01 | 2"x2", supports up to 72-pin SO/ SOP/ QSOP/ SSOP/ TSSOP/ PSSOP ICs w/ 0.65mm pitch, 37 pcs. of 0603 package, 14 ground holes                  | 9.95   | 8.95   |
| 2116921 | 202-0005-01 | 2"x2", supports up to 72-pin SO/ SOP/ QSOP/ SSOP/ TSSOP/ PSSOP ICs w/ 0.80mm pitch, 30 pcs. of 0603 package, 14 ground holes                  | 9.95   | 8.95   |

### QFP Boards

|         |             |  |        |        |
|---------|-------------|--|--------|--------|
| 2116955 | 202-0009-02 | 2"x2", supports up to 64-pin QFP/ TQFP/ PQFP ICs w/ 0.80mm pitch, 38 pcs. of 0603 package, 22 ground holes | \$9.95 | \$8.95 |
| 1537660 | 202-0011-01 | 2"x2", supports up to 100-pin QFP/ TQFP/ PQFP ICs w/ 0.50mm pitch, 20 pcs. of 0603 package, 6 ground holes | 9.95   | 9.49   |

### Chipscale (QFN) Boards

|         |             |   |        |        |
|---------|-------------|---|--------|--------|
| 2116971 | 202-0017-01 | 2"x2", supports up to 32-pin QFN ICs w/ 0.50mm pitch, 168 pcs. of 0603 package, 12 ground holes           | \$9.95 | \$8.95 |
| 2116963 | 202-0016-01 | 2"x2", supports up to 24-pin QFN ICs w/ 0.50mm & 0.65mm pitches, 54 pcs. of 0603 package, 12 ground holes | 9.95   | 8.95   |

### Accessories

|         |             |   |        |        |
|---------|-------------|---|--------|--------|
| 2117093 | 920-0005-01 | 22 AWG, 3" jumper wires & 20-pin headers, 10 pcs.                       | \$4.95 | \$4.75 |
| 2117106 | 920-0007-01 | 22 AWG, 7" jumper wires & 20-pin headers, 10 pcs.                       | 4.95   | 4.75   |
| 2117114 | 920-0021-01 | SchmartSolder, 50 pcs., 50-lead capability, gauge: 0.020", solder rings | 4.95   | 4.75   |



## Surfboards®

Mini Breadboards for Surface Mount Devices.



★ Web Code: QBG

| Part No. | Mfr. Part No.                                       |  | 1      | 10     |
|----------|---|--|--------|--------|
| 207360   | 9081 (For 8-pin SOIC)                               |  | \$1.49 | \$1.19 |
| 207378   | 9082 (For 8-pin SOIC)                               |  | 3.95   | 3.49   |
| 207386   | 9161 (For 14/16-pin SOIC; 0.1" pin spacing; 0.65"H) |  | 1.95   | 1.75   |
| 207394   | 9163 (For 14/16-pin SOIC; 0.1" pin spacing; 0.65"H) |  | 5.95   | 4.95   |

### Application Specific Adapters

| Part No. | Mfr. Part No. | Accepted Devices                 | Pins | 1      | 10     |
|----------|---------------|----------------------------------|------|--------|--------|
| 207589   | 33205         | SOT-23-5/SC59-5                  | 5    | \$1.75 | \$1.59 |
| 207597   | 33206         | SOT-23-6/SOT-23-L/SC-59-6/TSOP-6 | 6    | 1.95   | 1.55   |

## PLCC Prototype Adapters

- PLCC socket slotted for PLCC chip remover
- Tin-plated PLCC connector
- Gold-plated round pins
- PCB construction
- PLCC socket identifies pin 1 and orientation key
- Silkscreen numbers identify pin numbers in groups of 5 and 10

| Part No. | Pins | Size (L x W) | 1       | 5       | 25      |
|----------|------|--------------|---------|---------|---------|
| 73542    | 44   | 2.3" x 1.6"  | \$13.95 | \$12.49 | \$11.95 |
| 73551    | 68   | 3.4" x 1.6"  | 15.95   | 13.49   | 11.95   |
| 73569    | 84   | 4.3" x 1.9"  | 17.95   | 16.49   | 14.95   |

Enter web codes online for additional product listings & specifications. Look for the web code box on the home page.

[www.Jameco.com/More](http://www.Jameco.com/More)

## Power & Development Modules

### Populated Single Voltage Regulated Power Modules

- Highly stable linear-low-drop voltage regulators with 12VDC input
- Output peak: 800mA
- For negative voltage: reverse output and ground

NEW  
MARKED IN PINK

| Part No. | Mfr. Part No. | Output Volt. | 1      | 5      |
|----------|---------------|--------------|--------|--------|
| 2117018  | 710-0003-01   | 1.5          | \$9.95 | \$8.95 |
| 2117026  | 710-0003-02   | 1.8          | 9.95   | 8.95   |
| 2117034  | 710-0003-03   | 2.5          | 9.95   | 8.95   |
| 2117042  | 710-0003-04   | 3.3          | 9.95   | 8.95   |
| 2117051  | 710-0003-05   | 5.0          | 9.95   | 8.95   |
| 2117069  | 710-0003-06   | 9.0          | 9.95   | 8.95   |

### Populated RS-232 SchmartModule

- Operates from a single 5V power source, ESD

NEW  
MARKED IN PINK

| Part No. | Mfr. Part No. | 1       | 5       |
|----------|---------------|---------|---------|
| 2117000  | 710-0001-01   | \$14.95 | \$13.49 |

### Parallax Propeller SchmartModule Kit

This kit includes the board, voltage regulator ICs, capacitors, LEDs, headers, resistors and a pushbutton switch. You supply the Propeller chip, memory, and optional 5MHz crystal. The Propeller chip makes it easy to rapidly develop embedded applications, and this kit allows you to easily interface with the Propeller chip for programming.

- 2" x 2" PCB
- 6.5-12VDC
- For Parallax Propeller P8X32A-Q44 (use P/N 2007151, see web)
- For 5MHz crystal (use P/N 324929, pg 40)

NEW  
MARKED IN PINK

| Part No. | Mfr. Part No. | 1       | 5       |
|----------|---------------|---------|---------|
| 2117085  | 710-0005-01   | \$14.95 | \$13.49 |

### PIC® Microcontroller Development SchmartModule

This board supports 116 different SOIC PIC® Microcontrollers. Simply solder on your PIC using the EZ technology and you are ready to go. This one board supports most of the 8-bit PICs available in SOIC package.

NEW  
MARKED IN PINK

| Part No. | Mfr. Part No. | 1       | 5       |
|----------|---------------|---------|---------|
| 2117077  | 710-0004-01   | \$14.95 | \$13.49 |



## ProtoFlex Flexible Prototyping System

ProtoFlex has devised a flexible, self-adhesive adapter system that makes it easier to integrate SOIC, TSSOP, SOT, D-Sub, and other small components into your prototyping design. The pre-cut adapters can be applied to virtually any surface.



★ Web Code: FPS

- 3 mil thick design keeps components low profile
- Large pads allow for easy surface mounting of wires
- Unique, dual, asymmetric hole pattern for multiple connection points
- Multiple silk-screen blocks for reference and pin identification

| Part No.                | Description  | 1       | 5       |
|-------------------------|--|---------|---------|
| 2121201                 | SOIC, 5 ea. of 8, 14, 16 & 20-pin adapters .....                           | \$59.95 | \$56.95 |
| 2121210                 | TSSOP/SSOP, 5 ea. of 8, 14, 16 & 20-pin adapters ..                        | 59.95   | 56.95   |
| 2121228                 | Variety of common SOT, SC-70, DD-PAK, 1206 & other SMT layouts             | 59.95   | 56.95   |
| 2121236                 | IDC ribbon, 4 ea. of 10, 20 & 34-pin configurations, 2.54mm pitch ...      | 59.95   | 56.95   |
| 2121244                 | D-Sub interface, 4 ea. 9, 15 & 25-pin configurations, 2.74mm pitch ..      | 59.95   | 56.95   |
| 2121252                 | Kapton insulators, 3 mil, for electrical & thermal insulation, pre-cut ... | 19.95   | 18.95   |
| 2121261                 | Protoboard alignment tool, board must have 1.06mm dia. holes ...           | 59.95   | 56.95   |
| 2121279                 | Tool accessory kit, 4 alignment pins, 4 screws, foam pad, case .....       | 24.95   | 22.95   |
| 2121287                 | 4 replacement pins for alignment tool, .13mm pin dia., .....               | 1.29    | 1.15    |
| fits 1.06mm board holes |  |         |         |

NEW  
MARKED IN PINK

## microEngineering Labs "PICProto" Prototyping Boards

- Holds microcontroller, 5V regulator, oscillator, capacitors and DB9-25 connector
- Double-sided board with plated-through holes
- Large prototyping area
- Silkscreen legend
- Solder mask on both sides makes soldering easy

★ Web Code: DAT



132644

132636

132652

**Includes:** Documentation sheet with schematic, suggested parts and placement

**PICProto 18, 18L:** All 18-pin PICs including PIC16C52, 54, 56, 58, 554, 558, 61, 620, 621, 622, 71, 710, 711, 712, 715, 716, 84, 16CE623, 624, 625, 16F627, 628, 83 and 84

| Part No. | Mfr. Part No. | Description | Size (L" x W") | 1      | 5      |
|----------|---------------|-------------|----------------|--------|--------|
| 132644   | PP18          | PICProto 18 | 3.0 x 1.5      | \$9.95 | \$8.95 |

**PPUSB:** For the 28-pin PIC16C745, 765; PIC18F2450, 2455, 2550  
For the 40-pin PIC18F4450, 4455, 4550

|         |       |              |           |         |         |
|---------|-------|--------------|-----------|---------|---------|
| 1942180 | PPUSB | PICProto USB | 3.6 x 4.1 | \$19.95 | \$17.95 |
|---------|-------|--------------|-----------|---------|---------|

**PICProto 3:** For the 28-pin PIC16C62, 63, 642, 66, 72, 76, 773, 76, 870, 872, 873, 876, 18C242 and 252

|        |     |            |           |         |         |
|--------|-----|------------|-----------|---------|---------|
| 132636 | PP3 | PICProto 3 | 3.0 x 3.0 | \$14.95 | \$12.49 |
|--------|-----|------------|-----------|---------|---------|

**PICProto 64:** For the 40-pin PIC16C64, 65, 662, 67, 74, 77, 774, 16F74, 77, 871, 874, 18C422 and 452

|        |      |             |           |         |         |
|--------|------|-------------|-----------|---------|---------|
| 132652 | PP64 | PICProto 64 | 4.0 x 3.0 | \$16.95 | \$12.95 |
|--------|------|-------------|-----------|---------|---------|

## microEngineering Labs PICBasic & Pro Compilers

- Compatible w/ most PICmicro MCU programmers including EPIC plus
- Use in DOS or Windows® (includes Windows® editor/DE software)
- I²C instructions to access external serial EEPROMs

### 132661: PICBasic Compiler

- Expanded BASIC Stamp I compatible instruction set
- Supports PIC12C67x, 14Cxxx, 16C55x, 66x, 7xx, 84, 92x, and 16CF8xx microcontrollers
- Serial speeds to 9600 baud

### 150543: PICBasic Pro Compiler

- Direct and library routine access to any pin or register
- Automation page boundary handling past 2k • Built-in LCD support
- MPLAB/MPASM/ICE compatibility • Bit, byte, word arrays
- Supports PIC12C5xx, 12C67x, 12CE67x, 14C000, 16C5x, 16C55x, 6xx, 7xx, 84, 92x, 16CE62x, 16F62x, 7x, 8x, 87x, 17Cxxx and 18Cxxx microcontrollers

150543



| Part No. | Mfr. Part No. | Description           | 1       | 5       |
|----------|---------------|-----------------------|---------|---------|
| 132661   | PBC           | PICBasic compiler     | \$65.95 | \$59.95 |
| 150543   | PBP           | PICBasic Pro compiler | 225.95  | 195.95  |

## microEngineering Labs Experimenter's Module Board

Provides an assembled test bed containing most of the circuitry commonly used with PIC microcontrollers. Many different projects may be created using the LAB-X1, including calculator, voltmeter, LCD backpack, tone dialer and RC servo controller.



- 40-pin ZIF socket for PIC MCU (P/N 104030, below) and PIC16F877-20/P (P/N 176882, below)
- Reset button • 16 switch keypad • 2 RC servo connectors
- LED bargraph • RS-232 interface • 3 potentiometers • Speaker
- 2 lines x 20 characters LCD module • Size: 5.5" x 5.6" • One-year warranty
- Socket for I²C & SPI serial EEPROM, RS-485 interface, Microwire serial EEPROM and real time clock/serial analog to digital converter (devices not included)
- EPIC in-circuit programming connector • Prototyping area for additional circuit

**Requires:** AC adapter (below)

| Part No. | Description                                  | 1        | 5        |
|----------|--|----------|----------|
| 169113   | LAB-X1A experimenter board (assembled) ..... | \$199.95 | \$189.95 |
| 176882   | PIC16F877-20/P microcontroller (pg 11)       | 5.65     | 5.45     |
| 127976   | AC adapter (details on pg 124) .....         | 6.95     | 6.25     |
| 104030   | 40-pin ZIF socket (details on pg 84)         | 11.95    | 10.75    |

## MICROCHIP PICKit™ 2 Microcontroller Starter Kit

The PICKit™ 2 microcontroller programmer is a low cost development programmer. It is capable of programming most of Microchip's Flash microcontrollers. New device support can be added by updating the operating system. The latest firmware is available on Microchip's website. This kit includes PICKit™ 2 microcontroller programmer, USB cable and CD ROM.



| Part No. | Mfr. Part No. | Description            | 1       | 5       |
|----------|---------------|------------------------|---------|---------|
| 697338   | DV164120      | Programmer starter kit | \$74.95 | \$69.95 |

## velleman PIC™ Programmer Board

- Regularly updated list of microcontrollers through Velleman's website ([www.vellemanusa.com](http://www.vellemanusa.com))
- On-board configurable 40-pin ZIF socket
- Easy to use programming PICprog2006 software included • Size: 5.3" L x 2.6" W
- On-board "In Circuit Programming" DSUB-9 connector
- Power supply: 15VDC @ 300mA adapter (recommend P/N 190001, pg 125)
- Supports over 50 PIC products. Visit [www.vellemanusa.com](http://www.vellemanusa.com) for details



**System Requirements:** IBM compatible PC, Pentium or better, Windows® 98/ME/NT/XP/Vista, CDROM drive, RS-232 port

| Part No. | Mfr. Part No. | Description           | 1       | 5       |
|----------|---------------|-----------------------|---------|---------|
| 2006844  | VM134         | PIC™ programmer board | \$89.95 | \$84.95 |

## microEngineering Labs USB PIC Programmer

More than 300 PIC microcontrollers are supported and support for future devices can be added via FLASH firmware updates. Intelligent voltage regulation allows programming of the new, low voltage PIC® MCUs as well as standard 5V devices.

- Dual color indicator shows ready/busy states
- Full featured, command-line operation
- Fast full speed USB data transfer
- Standard USB cable (Type A male to Type B male) • HID interface
- Automatic Vdd and Vpp adjustment for different PIC MCUs
- In-Circuit Serial Programming (ICSP) connector for interface to project board
- Compatible with microchip HEX format files & all programming adapters



| Part No. | Mfr. Part No. | Description             | 1       | 5       |
|----------|---------------|-------------------------|---------|---------|
| 1942382  | U2            | USB PIC programmer      | \$89.95 | \$84.95 |
| 1942606  | 840Z          | ZIF adapter (8-40 pins) | 39.95   | 37.95   |

★ MicroEngineering Labs Programmers Available Online — Enter Web Code: EAT

**All Jameco purchases are guaranteed for a full 90 days and even longer for Jameco House Brands.**



## microEngineering Labs EPIC Plus PICmicro Programmer

The EPIC Plus Programmer quickly and easily programs the PIC12Cxxx, 12CExxx, 16C505, 16C55x, 6xx, 7xx, 84, 9xx, 16CE62x, 16F62X, 7x, 8x, 87x, 14C000, 17C7xx, 18Cxxx microcontrollers from Microchip. The BASIC programmer includes an 18-pin socket for programming 8, 14 and 18-pin PICmicro MCUs. Devices available separately on page 11.

- Simple installation with parallel port (printer) interface
  - Command line operation for automated, non-interactive programming
- Requires: Two 9V batteries or AC adapter (below)

| Part No. | Description  | 1       | 5       |
|----------|--|---------|---------|
| 132679   | EPIC Plus PICmicro programmer .....                    | \$54.95 | \$49.95 |
| 136397   | 8/18/20-pin ZIF adapter .....                          | 29.95   | 26.95   |
| 132610   | 40/28-pin ZIF adapter .....                            | 29.95   | 26.95   |
| 162317   | AC wall adapter (16VDC/500mA, details on pg 125) ..... | 9.95    | 8.95    |
| 67257    | 6' DB25 cable (details on pg 188) .....                | 7.95    | 6.95    |



## EPROM Eraser

- Erases 1 chip in 15 min. or 8 chips in 21 min.
- Conductive foam liner eliminates static build-up
- Maintains constant exposure distance of 1"
- Built-in safety lock to prevent UV exposure
- Complete with holding tray for 8 chips
- UV intensity: 6.8mW/cm<sup>2</sup>



| Part No. | Description          | Size (L" x W" x H") | Weight   | 1        | 5        |
|----------|----------------------|---------------------|----------|----------|----------|
| 15712    | 8-chip eraser .....  | 9.0 x 3.7 x 2.6     | 2.3 lbs. | \$169.95 | \$159.95 |
| 34382    | Lamp for 15712 ..... | —                   | 0.6 oz.  | 39.95    | 34.95    |



## IC Programming Solutions

\* Web Code: EET

EE Tools' main goal is to develop and manufacture the most sophisticated, reliable, and fast stand-alone and PC based device programmers which will surpass those introduced by the manufacturers from the Far East. All products are CE approved, and design.

- All products made in the USA
- Free software updates for life
- CE approved
- Over 100 adapters available @ [www.Jameco.com](http://www.Jameco.com)



### EeRom-8U USB Port 8-bit Rom Emulator

- 8-bit Rom Emulator
- Input voltage: 5V, 3.3V w/o adapter
- Supports: EPROM, Flash, SRAM

| Part No. | Description               | Price    |
|----------|---------------------------|----------|
| 2110203  | Emulator .....            | \$294.95 |
| 2110220  | 28-pin PLCC adapter ..... | 84.95    |
| 2110211  | 32-pin PLCC adapter ..... | 84.95    |



### ChipMax Low Cost Universal Programmer

- USB interface
- 40-pin ZIF socket
- Input voltage: 5V
- No. of devices supported: 8,000+
- Supports: Flash EPROM, EPROM, EEPROM, Microcontroller, PALCE, GAL

| Part No. | Mfr. Part No. | Price    |
|----------|---------------|----------|
| 207731   | CHIPMAX ..... | \$294.95 |



### ChipMax2 Low Cost Fast Universal Programmer

- USB interface
- 48-pin ZIF socket
- Input voltage: 5V, 3.3V, 2.7V, 1.8V
- No. of devices supported: 15,000+
- Supports: NAND Flash Memory, Standard Flash Memory, EPROM, EEPROM, Serial PROM, GAL, FPGA, MCU

| Part No. | Mfr. Part No.  | Price    |
|----------|----------------|----------|
| 694866   | CHIPMAX2 ..... | \$544.95 |



### TopMaxII High Speed Universal Programmer

- USB 2.0 PC interface
- 48-pin ZIF socket
- Input voltage: 5V, 3.3V, 1.8V
- No. of devices supported: 20,000+
- Supports: NAND Flash Memory, Standard Flash Memory, EPROM, EEPROM, Serial PROM, PAL, GAL, FPGA, MCU

| Part No. | Mfr. Part No.  | Price    |
|----------|----------------|----------|
| 2110158  | TOPMAXII ..... | \$794.95 |

### Adapters for Universal Programmers

\* Web Code: IPS

| Part No. | Mfr. Part No.             | Price   | Part No. | Mfr. Part No.             | Price   |
|----------|---------------------------|---------|----------|---------------------------|---------|
| 2110166  | 32-pin PLCC adapter ..... | \$79.95 | 2110182  | 16-pin TSOP adapter ..... | \$79.95 |
| 694840   | 44-pin PLCC adapter ..... | 114.95  | 2110174  | 48-pin TSOP adapter ..... | 134.95  |
| 2110191  | 20-pin SOIC adapter ..... | 79.95   |          |                           |         |

Data Sheets Are Available for Most of the Products We Carry. Find Them Easily on the Product Specification Page. [www.Jameco.com](http://www.Jameco.com)



## Full Line of Electronic Programmers & Adapters



- On-board FPGAs allow for fast programming speeds
- Developed & manufactured in the USA
- Lifetime software upgrades

\* Web Code: EET



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## 150 to 500-Watt PC Power Supplies

↑↑ 80 Plus Energy Efficient



### AT Power Supplies

★ Web Code: HCA

| Part No. | Mfr.          | Mfr. Part No. | Power (W) | Output (VDC/A)                      | Input (VAC @ Hz)           | Input Connector (Mating Connector/Cord)   | Certification  | Size (L" x W" x H") | Wt. (lbs) | Pricing |         |         |  |
|----------|---------------|---------------|-----------|-------------------------------------|----------------------------|---|----------------|---------------------|-----------|---------|---------|---------|--|
|          |               |               |           |                                     |                            |   |                |                     |           | 1       | 5       | 25      |  |
| 2081764  | Magic         | MPI-925A*     | 200       | +5/20, +12/7.5, -12/1, -5/1         | 85-265 @ 50-60             | 3-prong AC receptacle (P/N 38050, pg 133) | UL/CUL/TUV/CE  | 6.0 x 5.6 x 3.4     | 3.3       | \$39.95 | \$35.95 | \$31.95 |  |
| 249754   | Sparkle       | SPI-300G      | 300       | +5/30, -5/0.5A, +12V/12A, -12V/0.5A | 100-240 @ 50-60 switchable | 3-prong AC receptacle (P/N 38050, pg 133) | UL/CSA/TUV FCC | 5.5 x 5.9 x 3.4     | 3.5       | 64.95   | 58.95   | 52.95   |  |
| 2081861  | Pacific Power | KPP400-29     | 400       | +5/42, +12/14, -5/1, -12/1          | 100-240 @ 50-60            | 3-prong AC receptacle (P/N 38050, pg 133) | CUL/TUV/CE     | 5.5 x 6.0 x 3.5     | 4.6       | 64.95   | 57.95   | 49.95   |  |

### ATX Power Supplies

| Part No. | Mfr.                | Mfr. Part No.         | Power (W) | Output (VDC/A)  | Input (VAC @ Hz)           | Input Connector (Mating Connector/Cord)   | Certification          | Size (L" x W" x H")  | Wt. (lbs) | Pricing |         |         |  |
|----------|---------------------|-----------------------|-----------|---|----------------------------|---|------------------------|----------------------|-----------|---------|---------|---------|--|
|          |                     |                       |           |   |                            |   |                        |                      |           | 1       | 5       | 25      |  |
| 1955941  | Magic Power Tech    | MPI-806H*             | 60        | +3.3/6, +5/8, +12/3, +5VSB/0.75, -12/0.5                      | 90-264 @ 47-63             | Connector, CN1-CN3                        | UL/CB/TUV              | 5.0 x 3.1 x 1.5      | 1.0       | \$89.95 | \$84.95 | \$79.95 |  |
| 2081887  | Enhance             | ENP-0185T             | 150       | +3.3/7, +5/12, +12/5, +5VSB/0.8, -5/0.2, -12/0.3              | 115-230 @ 50-60            | 3-prong AC receptacle (P/N 38050, pg 133) | CUL/TUV/CE             | 7.5 x 3.25 x 1.7     | 2.5       | 24.95   | 22.49   | 19.95   |  |
| 421657   | Powertronic         | PK-6180DT3            | 200       | +3.3/14, +5/22, +12/6, +5VSB/0.1, -5/0.5, -12/0.8             | 115/230 @ 47-63 switchable | 3-prong AC receptacle (P/N 38050, pg 133) | UL/CUL/TUV             | 6.0 x 5.6 x 3.5      | 3.3       | 19.95   | 17.95   | 15.95   |  |
| 2081879  | Pacific Power       | KPT230C-4A            | 230       | +3.3/15, +5/25, +12/9, +5VSB/1A, -5/1, -12/1                  | 100-240 @ 50-60            | 3-prong AC receptacle (P/N 38050, pg 133) | CUL/TUV/CE             | 8.0 x 4.0 x 1.6      | 3.0       | 22.95   | 20.49   | 18.49   |  |
| 319994   | 3Y Power Technology | AP-1250-1112*         | 250       | +3.3/20, +5/25, +12/12, -5VSB/3, -5/0.5, -12/0.5              | 100-240 @ 50-60            | 3-prong AC receptacle (P/N 38050, pg 133) | UL/CUL/TUV/CE          | 7.5 x 4.0 x 1.6 (1U) | 2.9       | 19.95   | 17.95   | 15.95   |  |
| 2110422  | Sparkle             | SPI2501UH-B204*       | 250       | +3.3/16 +5/18, +12v1/16, +12v2/16 -12/0.8, -5/0.3, +5VSB/2.5  | 90-264 @ 47-63             | 3-prong AC receptacle (P/N 38050, pg 133) | UL/CSA/TUV/CE/CB↑↑     | 7.5 x 3.9 x 1.6 (1U) | 2.9       | 69.95   | 62.95   | 59.95   |  |
| 427928   | Seasonic            | SS-300SFD Active PFC* | 300       | +3.3/20, +5/20, +12/8, +12/14.5, -12/0.8, +5VSB/2             | 90-264 @ 47-63 switching   | 3-prong AC receptacle (P/N 38050, pg 133) | UL/CUL/TUV/CE          | 5.1 x 4.9 x 2.5      | 2.7       | 54.95   | 53.55   | 49.95   |  |
| 2110238  | Sparkle             | ATX-300PA-B204*       | 300       | +3.3/20, +5/20, +12v1/16, +12v2/16 -12/0.3, +5VSB/2.5         | 115 @ 57-63, 230 @ 47-53   | 3-prong AC receptacle (P/N 38050, pg 133) | UL/CSA/TUV/CB          | 5.5 x 5.9 x 3.4      | 3.3       | 39.95   | 36.95   | 32.95   |  |
| 1810136  | Sparkle             | FSP300-601U*↑         | 300       | +3.3/20, +5/25, +12/16, -5/0.3, -12/0.8, 5VSB/2               | 100-240 @ 50-60 switching  | 3-prong AC receptacle (P/N 38050, pg 133) | UL/CUL/VDE/CE          | 8.3 x 4.0 x 1.6 (1U) | 3.3       | 24.95   | 23.95   | 22.95   |  |
| 2077482  | Emacs               | APS-5300F-RV2*        | 300       | +3.3/28, +5/30, +12/10, +5/0.85, -5/1, -12/1                  | 115-230 @ 50-60 switching  | 3-prong AC receptacle (P/N 38050, pg 133) | UL/CSA/CE/TUV          | 6.0 x 5.5 x 3.4      | 3.3       | 24.95   | 22.49   | 19.95   |  |
| 2110254  | Sparkle             | ATX-400PA-B204*       | 400       | +3.3/20, +5/14, +12v1/18, +12v2/18 -12/0.3, +5VSB/2.5         | 115 @ 57-63, 230 @ 47-53   | 3-prong AC receptacle (P/N 38050, pg 133) | UL/CSA/TUV/CB          | 5.5 x 5.9 x 3.4      | 3.8       | 44.95   | 42.95   | 41.95   |  |
| 308814   | Powmax              | LP6100D*              | 400       | +3.3/28, +5/30, +12/25, -5/0.3, -12/0.8, +5VSB/2              | 115/230 @ 60 switchable    | 3-prong AC receptacle w/ 6' power cord    | UL/CUL/TUV/CE          | 5.9 x 5.6 x 3.4      | 3.5       | 49.95   | 44.95   | 39.95   |  |
| 2110449  | Sparkle             | SPI4601UG-B204*       | 460       | +3.3/20, +5/20, +12v1/16, +12v2/16 +12/16, -12/0.5, +5VSB/2.5 | 90-264 @ 47-63             | 3-prong AC receptacle (P/N 38050, pg 133) | UL/CSA/CUL/TUV/CE/CB↑↑ | 8.7 x 3.9 x 1.6 (1U) | 3.7       | 109.95  | 104.95  | 99.95   |  |
| 422094   | Seasonic            | SS-500HT Active PFC*  | 500       | +3.3/30, +5/30, +12/17, +12/16, -12/0.8, +5VSB/2              | 90-264 @ 47-63             | 3-prong AC receptacle (P/N 38050, pg 133) | UL/CUL/TUV/CE          | 5.9 x 5.5 x 3.4      | 5.0       | 99.95   | 89.95   | 79.95   |  |
| 2110457  | Sparkle             | SPI500ACH8-B204*      | 500       | 3.3/24, +5/214, +12v1/18, +12v2/18 -12/0.5, +5VSB/2.5         | 90-265 @ 47-63             | 3-prong AC receptacle (P/N 38050, pg 133) | UL/CSA/TUV/CB          | 5.5 x 5.9 x 3.4      | 3.6       | 59.95   | 56.95   | 53.95   |  |

\* See photo above ↑ Comes with SATA ready connector ↑↑ 80 Plus energy efficient

## Laptop Regulated Table-Top Power Supplies (3-Wire AC Input)

★ Web Code: LRT

♦ Polarity 2 (center positive) Female(F)



| Part No. | Manufacturer  | Mfr. Part No. | Volts (VDC)/ Current (A) | ID x OD mm Female/Male; Polarity ♦ | Input VAC@Hz  | Power (W) | LED Ind. | Size (L" x W" x H") | Cords* (DC/AC) | Wt. (lbs.) | Agency Approvals | Pricing |         |         |         |
|----------|---------------|---------------|--------------------------|------------------------------------|---------------|-----------|----------|---------------------|----------------|------------|------------------|---------|---------|---------|---------|
|          |               |               |                          |                                    |               |           |          |                     |                |            |                  | 1       | 10      | 50      | 100     |
| 148267   | ACBell        | AP13AD02      | +19/3.42                 | 2.5mm x 5.5mm rt. angle F 2        | 100-240@50-60 | 65        | No       | 4.2 x 1.8 x 1.1     | 6' 6'          | 0.8        | UL/CUL/TUV/CE    | \$36.95 | \$32.95 | \$29.95 | \$26.95 |
| 2099411  | Sparkle Power | FSP090-DMCBI  | +19/4.74                 | 7 ea. right angle plugs F 2        | 100-240@50-60 | 90        | No       | 5.3 x 2.3 x 1.3     | 6' 5'          | 0.7        | UL/CUL/TUV/CEC   | 59.95   | 53.95   | 47.95   | 42.95   |
| 2099761  | Hi-Capacity   | AC-C10K       | +19/8.0                  | 2.5mm x 5.5mm F 2                  | 100-240@50-60 | 120       | Yes      | 6.6 x 2.4 x 1.5     | 4' 6'          | 1.0        | UL/CUL/TUV/CE    | 49.95   | 44.95   | 39.95   | 35.95   |

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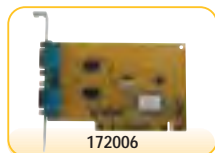
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RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 197.

## Interface, Graphic & Sound Cards

★ Web Code: VBB



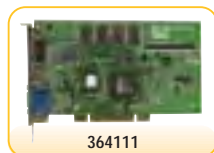
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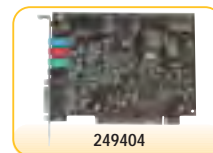
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364111



291901



249404

### Serial Interface Cards

| Part No. | Manufacturer | Product No. | Bus Type | Ports | Connectors | Description   | 1       | 10      |
|----------|--------------|-------------|----------|-------|------------|---|---------|---------|
| 172006   | Dolphin      | 99467       | PCI      | 2     | DB9        | 32-byte FIFO, 921kb/sec transfer rate, supports IRQ sharing, dual 16C650 DB9 male             | \$34.95 | \$30.95 |
| 171548   | Various      | 99468       | PCI      | 4     | DB25       | 32-byte FIFO, standard RS-232 interface, 921kb/sec transfer rate, supports IRQ sharing 16C550 | 69.95   | 59.95   |
| 171661   | Various      | 99469       | PCI      | 8     | DB25       | 32-byte FIFO, standard RS-232 interface, 921kb/sec transfer rate, supports IRQ sharing 16C650 | 89.95   | 84.95   |
| 344903   | SYBA         | SD-PCI-1S   | PCI      | 2     | DB9        | 32-bit PCI bus, dual DB-9 male, Nm9835CV chipset.   | 27.95   | 24.95   |

### Network Interface Card

|        |       |               |     |   |      |  |         |         |
|--------|-------|---------------|-----|---|------|--|---------|---------|
| 155221 | 3-COM | 3CR990B-FX-97 | PCI | 1 | FDD1 | 100BASE-FX Secure fiber network interface card | \$24.95 | \$19.95 |
|--------|-------|---------------|-----|---|------|--|---------|---------|

### Video Graphics Card

|        |     |              |     |   |        |   |         |         |
|--------|-----|--------------|-----|---|--------|---|---------|---------|
| 364111 | ATI | 109-54100-00 | PCI | 2 | HDDB15 | 8MB graphics accelerator, Rage LT PRO AGP chipset, 7-pin TV-out and DFB connectors, Windows® 98 and NT4.0 compatible. | \$24.95 | \$22.45 |
|--------|-----|--------------|-----|---|--------|---|---------|---------|

### SCSI Cards

|        |         |             |     |   |          |  |         |         |
|--------|---------|-------------|-----|---|----------|--|---------|---------|
| 149294 | Various | CI-2020     | ISA | — | 50-pin F | DOS, Windows® NT/95, OS2 Netware, SCO UNIX compatible, internal and external SCSI-II connectors, fast SCSI II                                | \$24.95 | \$22.95 |
| 191513 | Adaptec | AHA-2940U2B | PCI | 2 | 68-pin F | AIC-7890AB chipset, Windows® 95/NT, Netware, OS/2 compatible, Ultra II SCSI internal/external Ultra II SCSI 68-pin connectors, ultra SCSI II | 39.95   | 34.95   |

### I/O Controller Card

|        |   |             |     |   |          |   |        |        |
|--------|---|-------------|-----|---|----------|---|--------|--------|
| 291901 | — | MCT-IDEFH-2 | ISA | — | Multiple | 16-bit interface, supports 2 IDE hard drives up to 528MB and 2 floppy drives from 360kb to 1.44Mb, jumper selectable for enabling and disabling ports | \$4.95 | \$4.49 |
|--------|---|-------------|-----|---|----------|---|--------|--------|

### Sound Card

|        |               |        |     |   |          |  |         |         |
|--------|---------------|--------|-----|---|----------|--|---------|---------|
| 249404 | Creative Labs | CT4830 | PCI | — | Multiple | 2-audio line-out (mini stereo 3.5mm F), 1 microphone input (mini phono 3.5mm F)<br>1-audio line-in (mini stereo 3.5mm F) and 1 game port (DB15F) | \$24.95 | \$22.45 |
|--------|---------------|--------|-----|---|----------|--|---------|---------|

## Computer Switchboxes

★ Web Code: CAK



310842



149391



132249



310834



134017



79126



79142



20095



310818

### KVM Switchboxes

| Part No. | Mfr.     | Product No.   | Description   | Connectors  | Size (L" x W" x H") | Wt. (lbs.) | 1       | 5       |
|----------|----------|---------------|---|---|---------------------|------------|---------|---------|
| 310842   | —        | 2-PRT KVN-USB | 2-way KVM switchbox (2 PCs to 1 keyboard/mouse/monitor) | User connectors: PS/2 female for keyboard & mouse; HDDB15 female for monitor to PC connectors: two HDDB15 male for monitor, two USB-A male; two 3.5mm jack          | 2.9 x 2.7 x 1.1     | 1.5        | \$19.95 | \$17.95 |
| 149391   | ATEN     | CS-114A       | 4-way KVM switchbox (4 PCs to one user)                 | DB9 serial female / PS/2 keyboard & mouse; recommend P/N 204062 (see web) for PS/2 cable. Includes manual and power supply  | 10.0 x 7.0 x 3.0    | 7.1        | 119.95  | 107.95  |
| 132249   | ValuePro | 40H1-25602    | 2-user switchbox (1 PC to 2 users)                      | Keyboard (5-pin DIN male); Monitor (DB15HD female); Mouse (DB9 male). P/N 66174 (DB15HD M-M cable); P/N 132346 (DB9 F-F cable) pg 188                               | 7.5 x 5.3 x 2.8     | 1.6        | 12.95   | 11.95   |
| 310834   | Various  | KS-104        | 4-way KVM switchbox (4 PCs to 1 user)                   | PS/2 female for keyboard and mouse; HDDB15 for monitor, recommend P/N 202180 pg 124 for power supply  | 7.4 x 1.3 x 2.9     | 7.1        | 44.95   | 42.95   |
| 134017   | Various  | 40H1-25604    | 4-user switchbox (1 PC to 4 users)                      | 5-pin DIN male for keyboard, HDDB15 female for monitor, DB9 male for mouse. use P/N 66174 HDDB15 M-M cable for monitor; P/N 132346 pg 188 (BD9 F-F cable for mouse) | 7.5 x 2.8 x 5.3     | 2.3        | 19.95   | 17.95   |

### Miscellaneous Computer Switchboxes

|        |          |            |                         |  |                 |     |        |        |
|--------|----------|------------|-------------------------|--|-----------------|-----|--------|--------|
| 79126  | ValuePro | 40D1-10602 | 2-serial port switchbox | DB9 female (2-ports to 1PC)              | 6.0 x 4.8 x 2.5 | 1.2 | \$9.95 | \$8.95 |
| 79142  | ValuePro | 40R1-01602 | 2-PC RJ-11 switchbox    | RJ-11 6P6C (fax/modem/telephone to 2PCs) | 6.0 x 4.8 x 2.5 | 1.2 | 8.95   | 7.95   |
| 20095  | ValuePro | 40D3-17602 | 2-port switchbox        | DB25 female (2PCs to 1 printer)          | 6.0 x 5.8 x 2.3 | 1.4 | 10.95  | 9.95   |
| 310818 | —        | USB-2PORT  | 2-way USB switchbox     | 1 USB-B female; 2 USB-A female           | 5.1 x 3.7 x 1.8 | 2.5 | 8.95   | 7.95   |



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## Mice & Mouse Pads

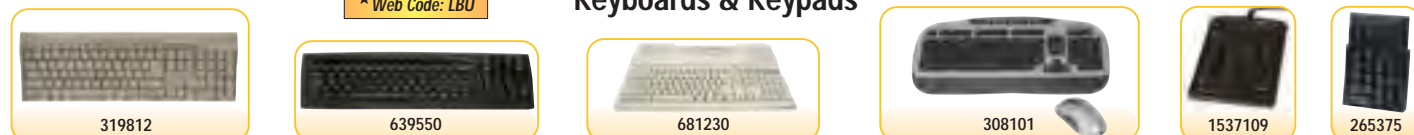
★ Web Code: MCM



| Part No. | Manufacturer | Mfr. Part No. | Type       | Interface | Description   | Size (L" x W" x H") | 1      | 10     | 25     |
|----------|--------------|---------------|------------|-----------|---|---------------------|--------|--------|--------|
| 685943   | Dell         | OW7751        | Mech. Ball | USB       | 3-button with scroll, black                                 | 4.8 x 2.5 x 1.5     | \$7.95 | \$6.95 | \$6.25 |
| 687746   | Cherry       | M-5000        | Optical    | USB-PS/2  | 3-button with scroll with PS/2 to USB adapter, black        | 4.6 x 2.6 x 1.5     | 7.95   | 6.95   | 6.25   |
| 265471   | —            | —             | Optical    | USB       | Mini optical mouse  | 3.7 x 2.2 x 1.3     | 9.95   | 8.95   | 7.95   |
| 305082   | IOne         | Libra-90      | Trackball  | PS/2      | PS/2 trackball with USB adapter, black                      | 5.6 x 4.7 x 1.9     | 24.95  | 22.95  | 19.95  |
| 2006650  | IOne         | MSM9UP-BLK    | Optical    | USB-PS/2  | 3-button with scroll, black                                 | 4.5 x 2.3 x 1.5     | 8.95   | 7.95   | 6.95   |
| 2006668  | IOne         | MSM9UP-WHT    | Optical    | USB-PS/2  | 3-button with scroll, white                                 | 4.5 x 2.3 x 1.5     | 8.95   | 7.95   | 6.95   |
| 265447   | BenchPro     | 32022378      | Optical    | PS/2      | Wireless, 5 button optical scrollpro w/ PS/2 to USB adapter | 4.9 x 3.0 x 1.6     | 16.95  | 15.95  | 14.95  |
| 121363   | —            | KP-01         | Mouse pad  | —         | Mini mouse pad, blue  | 7.0 x 5.5 x 1.0     | .69    | .59    | .49    |
| 1951001  | —            | MP-ATT        | Mouse pad  | —         | Mouse pad (2" x 3.5"; 2.75" x 5" window slots)              | 9.5 x 7.5 x 1.2     | .69    | .59    | .49    |

★ Web Code: LBU

## Keyboards & Keypads



| Part No. | Mfr.        | Mfr. Part No. | Interface | Description  | Size (L" x W" x H") | Wt. (lbs.) | 1      | 10     | 25     |
|----------|-------------|---------------|-----------|--|---------------------|------------|--------|--------|--------|
| 455603   | Powmax      | KM-2501       | PS/2      | 104-key soft touch w/ multimedia & 12 function keys.   | 17.5 x 6.0 x 1.2    | 1.8        | \$7.95 | \$6.95 | \$5.95 |
| 319812   | PC Concepts | iCIA          | PS/2      | 107-key soft touch keyboard w/ programmable function keys, software included                                     | 17.5 x 5.7 x 0.8    | 1.8        | 7.95   | 6.95   | 6.25   |
| 354950   | Compaq      | KB-9965       | PS/2      | 107-key soft-touch keyboard w/ 12 function keys  | 18.5 x 6.5 x 1.4    | 1.3        | 4.95   | 4.49   | 3.95   |
| 639550   | IOne        | Scorpius-2KB  | PS/2      | 103-key soft touch keyboard, Windows® 98SE/2000/ME/XP compatible (black)   | 15.9 x 6.5 x 1.3    | 2.1        | 39.95  | 35.95  | 31.95  |
| 681230   | NMB         | RT915CTW      | PS/2      | 104-key tactile keyboard w/ 12 function keys w/ built-in speakers  | 18.5 x 10.0 x 3.2   | 2.5        | 9.95   | 8.95   | 7.95   |
| 454483   | Powmax      | HB5103        | PS/2      | Black 3-in-1 internet kit 104-key optical mouse, speakers  | 17.1 x 6.12 x 1.0   | 2.24       | 12.95  | 11.49  | 10.95  |
| 319661   | IOne        | Gemini-M1     | PS/2      | 104-key soft touch wireless keyboard w/ 12 multimedia function keys and 2-butt optical mouse, batteries included | 17.6 x 7.5 x 1.6    | 2.2        | 12.95  | 11.49  | 9.95   |
| 308101   | Labtech     | 967360-0403   | PS/2      | 104-key wireless RF keyboard and 3-button optical scroll-mouse multimedia hot-keys                               | 18.0 x 8.7 x 1.6    | 4.5        | 26.95  | 24.95  | 22.95  |
| 1537109  | Arctic      | 25551         | USB       | 18-key tactile keypad  | 4.3 x 3.0 x 0.5     | 0.2        | 12.95  | 11.49  | 9.95   |
| 265375   | IOne        | Scorpius-22RB | Serial    | 22-key tactile keypad w/ 2-key rollover and auto repeat function   | 6.2 x 4.2 x 1.3     | 0.8        | 39.95  | 35.95  | 31.95  |

★ Blue Part No. = Limited Quantity Available

## CPU Heat Sinks with Fan

★ Web Code: MBG

| Part No. | Description                             | Size (H" x W" x D") | 1      | 10     |
|----------|---|---------------------|--------|--------|
| 684748   | Heat sink w/ fan, socket 7 Pentium®     | 1.02 x 2.60 x 2.30  | \$2.95 | \$2.65 |
| 319185   | Heat sink w/ fan, socket 7 PIII         | 1.40 x 2.62 x 2.30  | 3.75   | 3.49   |
| 1945313  | Heat sink w/ fan, Pentium® 75-133MHz    | 2.07 x 2.05 x 1.43  | 4.95   | 4.49   |
| 206244   | Heat sink w/ dual fan, SECC II Pentium® | 1.24 x 1.96 x 5.25  | 7.95   | 6.95   |
| 319951   | Heat sink w/ dual fan, for PIII slot 1  | 2.00 x 4.90 x 8.50  | 5.95   | 5.49   |
| 661087   | Heat sink w/ fan, socket 370 PIII       | 2.36 x 2.19 x 1.54  | 5.95   | 5.49   |
| 645482   | Heat sink w/ fan, socket 370 PIII       | 1.30 x 2.05 x 1.97  | 11.95  | 10.95  |
| 190545   | Heat sink w/ fan, socket 370 PIII       | 2.00 x 2.32 x 2.37  | 10.95  | 9.95   |

## Legacy 3.5" Hard Disk Drives

★ Web Code: SAW

| Part No. | Capacity | Description      | Warranty | 1       | 10      |
|----------|----------|------------------|----------|---------|---------|
| 151036   | 3.2GB★   | EIDE/Ultra DMA33 | 1 year   | \$34.95 | \$31.45 |
| 151044   | 4.3GB★   | EIDE/Ultra DMA33 | 1 year   | 49.95   | 44.95   |
| 146333   | 2.5GB★   | EIDE/FAST ATA-2  | 1 year   | 29.95   | 26.95   |
| 124978   | 1.27GB★  | IDE              | 1 year   | 29.95   | 26.95   |

★ Pull = Extra Savings

## Disk Drive Mounting Rails

- AT and compatibles
- 8 mounting holes
- Includes all necessary mounting hardware

| Part No. | Description        | Wt. (lbs.) | 1      | 10     |
|----------|--------------------|------------|--------|--------|
| 34323    | Mounting rails (2) | 0.04       | \$1.95 | \$1.49 |

## 3.5" Hard Drive Bracket Short

| Part No. | Product No. | Color  | ★ Web Code: SDW | 1      | 10     |
|----------|-------------|--------|-----------------|--------|--------|
| 1950745  | G/S435      | Silver |                 | \$4.95 | \$4.49 |

★ Video Text Modules Available Online — Enter Web Code RAJ

## Monitor/Mouse/Keyboard Cable

HDDDB15 male/female for monitor, 5-pin DIN male/female for keyboard and DB9 male/female for mouse.

| Part No. | Product No. | Length | 1      | 5      |
|----------|-------------|--------|--------|--------|
| 141284   | G/S(KVM062) | 6'     | \$9.95 | \$8.95 |

## Replacement Switches for AT-Style Computer Cases

### PC Pushbutton Switch

- Contacts rated at 250VAC • Current: 8A
- Alternate action double pole switch
- UL/CSA/VDE approved • Size: 0.9"L x 0.7"W x 0.9"D

| Part No. | Product No. | 1      | 10     | 100    |
|----------|-------------|--------|--------|--------|
| 174238   | PSD-1-2S8   | \$1.49 | \$1.25 | \$0.95 |

### PC Rocker Switch

- For mini-tower cases
- Current: 10A
- Contacts rated at 250VAC
- DPST
- UL/CSA approved
- Size: 0.9"L x 1.2"W x 1.4"D

| Part No. | Product No. | 1      | 10     | 100    |
|----------|-------------|--------|--------|--------|
| 127028   | GRK-618A    | \$1.49 | \$1.25 | \$0.95 |

## Business Card CD-R Kit

Differentiate yourself or your business from others. This kit includes 12 50MB capacity CD-R and sleeves, 16 labels and label design software. A great way to promote your business in trade shows and exhibits. Easy to carry and cost-effective.

| Part No. | Description                           | 1      | 10     |
|----------|---------------------------------------|--------|--------|
| 249308   | Do-It-Yourself Business Card CD-R kit | \$2.49 | \$2.25 |

★ RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 197.



## 2, 4, 6, 7, 8 & 12-Outlet Surge Protectors

### Isobar Premium Surge Protectors

- Up to \$50,000 Ultimate Lifetime Insurance covers Isobar and connected equipment against surge damage for life!
- Diagnostic indicators on Ultra versions alert you to improper outlet wiring, loss of AC power, and damage to protection circuitry
- 4 & 6-outlet protectors: 6' cord;
- 8 & 12-outlet protectors: 12' cord
- UL 1449 and 1283 listed
- Lifetime warranty
- 2114669: 2-line telephone/DSL protection
- 139686: Fits 19" rack mount
- Size: 18981: 5.8"L x 3.5"W x 2.5"H;
- 2114651: 7.0"L x 3.5"W x 2.5"H;
- 2114669: 7.0"L x 3.5"W x 2.5"H
- 19001: 9.0"L x 3.5"W x 2.5"H;
- 139686: 17.5"L x 4.0"W x 1.8"H

\*Web Code: CAC

ULTIMATE  
LIFETIME  
INSURANCE



isobar®



19001



139686

| Part No. | Mfr. Part No. | Joules | Description                         | Wt. (lbs.) | 1       | 5       |
|----------|---------------|--------|-------------------------------------|------------|---------|---------|
| 18981    | ISOBAR4       | 2200   | 4 outlet, 2 isolated filters (6')   | 2.4        | \$49.95 | \$44.35 |
| 2114651  | ISOBAR6U      | 2350   | 6 outlet, 3 isolated filters        | 2.9        | 74.95   | 69.95   |
| 2114669  | ISOTEL6U      | 2850   | 6 outlet, 3 isolated filters        | 3.3        | 79.95   | 71.95   |
| 19001    | ISOBAR8U      | 2350   | 8 outlet, 4 isolated filters (12')  | 3.5        | 74.95   | 66.95   |
| 139686   | IBAR12RM      | 750    | 12 outlet, 2 isolated filters (15') | 4.7        | 129.95  | 122.95  |

### Super 7 Standard Surge Protectors – 7 Outlet

- \$75,000 Ultimate Lifetime Insurance
- Up to 42,000 amp spikes
- Effective spike and noise suppression w/ diagnostic LEDs
- 2114677: 1-line telephone/DSL protection

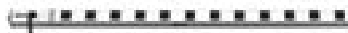


124337

| Part No. | Mfr. Part No. | Joules | Size (L" x W" x H") | Wt. (lbs.) | 1       | 5       |
|----------|---------------|--------|---------------------|------------|---------|---------|
| 124337   | Super7        | 2350   | 10.5 x 2.5 x 1.5    | 1.6        | \$19.95 | \$17.95 |
| 2114677  | Super7tel     | 2470   | 10.25 x 2.75 x 1.5  | 2.2        | 34.95   | 31.49   |

### 12-Outlet Power Strip

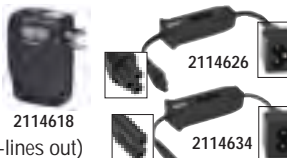
- No surge suppression
- Lighted/protected switch
- 15' cord
- Size: 36"L x 1.5"W x 1.5"D



| Part No. | Mfr. Part No. | Electrical Rating | Outlet Spacing | Wt. (lbs.) | 1       | 10      |
|----------|---------------|-------------------|----------------|------------|---------|---------|
| 2114642  | PS3612        | 1800W (15A)       | 2.638"         | 3.8        | \$52.95 | \$48.95 |

### 2-Outlet Travel Surge Protectors

- 2114618: \$50,000 Ultimate Lifetime Insurance
- Retractable plug
- Modem/fax protection
- 2114626/2114634: \$100,000 Ultimate Lifetime Insurance
- In-line connection for notebooks
- Modem/fax protection with splitter (1-line in/2-lines out)



| Part No. | Mfr. Part No. | Joules | Description       | Size (L"xW"xH")   | Wt. (lbs.) | 1       | 5       |
|----------|---------------|--------|-------------------|-------------------|------------|---------|---------|
| 2114618  | Traveler      | 1050   | 2 outlet w/ phone | 1.75 x 2.5 x 3.5  | 0.3        | \$17.95 | \$15.95 |
| 2114626  | TravelerC6    | 1130   | 3-prong, in-line  | 1.0 x 4.25 x 1.75 | 0.2        | 32.95   | 29.95   |
| 2114634  | TravelerC8    | 1130   | 2-prong, in-line  | 1.0 x 4.25 x 1.75 | 0.2        | 24.95   | 22.95   |

## 6 & 8-Outlet Surge Protectors

### 20175: 6-outlet; 4' cord

- Metal power strip
- Size: 12.3"L x 2.4"W x 1.3"H

### 216485: 6-outlet; 4' cord

- Heavy-duty power cord (14AWG x 3)
- Size: 9.5"L x 1.7"W x 1.4"H
- Clamping voltage: 400V
- Max. surge volt.: 6500V
- RESET/OFF switch with built-in 15A circuit breaker

### 2075647: 6-outlet; 6' cord

- Rating: 15A/125VAC/1875W
- Clamping volt.: 330V
- Size: 13"L x 2.1"W x 2.3"H
- Expands from 13" to 18" to fit bulky adapters; each segment expands separately

### 2079411: 8-outlet; 6' cord

- Lifetime warranty \$250,000 connected equipment
- Size: 12.5"L x 5.0"W x 1.5"H

\*Web Code: XAR



20175



216485



2075647



2079411

| Part No. | Mfr.     | Product No. | Spike Current (Max.)  | Wt. (lbs.) | 1       | 10      | 25     |
|----------|----------|-------------|-----------------------|------------|---------|---------|--------|
| 20175    | ValuePro | 51W1-13206  | 4500A, 50 joules      | 1.5        | \$11.95 | \$10.95 | \$9.95 |
| 216485   | ValuePro | 51W1-10206  | 4500A, 150 joules     | 0.9        | 12.95   | 11.49   | 9.95   |
| 2075647  | Ideative | SS1650W-06  | 144,000A, 2160 joules | 1.6        | 24.95   | 22.49   | 19.95  |
| 2079411  | Belkin   | F9M800      | 135,000A, 2655 joules | 2.8        | 16.95   | 13.95   | 12.49  |

## 6-Outlet Power Tap Adapter w/ Surge Protection

- Right angle jacks
- Grounded outlets
- 180 joules
- Surge protection across line and neutral, line and ground
- Surge protection circuit good LED indicator
- 15A; 125VAC; 1875W
- TVSS: 330V



| Part No. | Mfr. Part No. | Description                   | 1      | 10     | 100    |
|----------|---------------|-------------------------------|--------|--------|--------|
| 2082214  | YE-08A        | 6-outlet wall surge protector | \$5.95 | \$5.49 | \$4.95 |

## 6-Outlet Power Strip w/ Personal Sensor

An energy saving control system that provides maximum surge and noise suppression while keeping plug load equipment off when there is no occupancy. Turns all controlled devices on when workspace is occupied, and off when the workspace is unoccupied with the user-defined time delay. 120" coverage up to 300'sq on sensor.



Watt Stopper®

- 6-outlets by sensor
- Two LED indicators for correct wiring and surge protection function
- 15A dry contact relay
- Joule rating: 360 joules
- Initial clamping voltage: 200V
- Sensor can be mounted with double-backed tape to the bracket provided
- 4' power cord & 9' cable on sensor
- Size: 12.0"L x 2.2"W x 1.7"H
- Electrical rating: 120VAC, 15A, 60Hz
- UL1449 rating: 330V
- Maximum surge amperage: 27,000A
- UL/CUL approved

Includes: Double backing tape, cubicle divider-rail bracket

| Part No. | Mfr. Part No. | Description                    | 1       | 5       | 25      |
|----------|---------------|--------------------------------|---------|---------|---------|
| 2100187  | IDP-1000      | 6-outlet power strip w/ sensor | \$39.95 | \$35.95 | \$31.95 |

## PC Accessories

### IDE HDD Enclosure

- Removable enclosure for 3.5" drive bay
- Includes insert and hardware
- Size: 5.8"W x 8.9"D x 1.6"H
- Weight: 1.31 lbs.



| Part No. | Product No. | 1      | 5      |
|----------|-------------|--------|--------|
| 319775   | DT51PC      | \$7.95 | \$6.95 |

### PC Speakers

- 3.5mm male stereo plug
- Size: 4.7"H x 3.0"W x 4.0"D



| Part No. | Mfr. Part No. | 1      | 5      | 25     |
|----------|---------------|--------|--------|--------|
| 311079   | 5065-5746     | \$3.95 | \$3.55 | \$2.95 |

### Hands-Free Condenser Microphone

- Cord length: 8'
- One-year warranty
- Connector: 3.5mm male stereo plug
- Size: 1.9"L x 1.2"W x 0.3"H



| Part No. | Product No. | 1      | 5      | 25     |
|----------|-------------|--------|--------|--------|
| 135248   | MP-9108-R   | \$4.95 | \$4.49 | \$3.95 |

### Clip-On Lapel Microphone

- For Motorola cell phones and other applications
- 2.5mm male stereo plug
- Includes ear bud

\*Web Code: GCP



| Part No. | Cord Length | 1      | 5      | 25     |
|----------|-------------|--------|--------|--------|
| 2078207  | 3'          | \$2.49 | \$2.25 | \$1.95 |

\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

**We Ship the Same Day!**

All orders placed before 6PM EST Monday through Friday will be shipped the same day.

## ATEN RS-232 to RS-485/422 Bidirectional Converters

- Cable length: 4000' max.
- Data rate: 1MB/second
- Controlled by RTS signal
- 4-wire full duplex or 2-wire half duplex
- DCE and DTE selectable
- Point-to-point and multidrop operations
- RS-485: terminal block and RJ11 connections
- RS-232: DB25 female connector • Input: 110VAC
- Weight: 0.9 lbs. • One-year warranty



197931: Port powered (power adapter not included)  
• Data rate: 100kbps

122956: Features RS-485SI; optical isolation: 2000V

| Part No. | Mfr. Part No.          | 1       | 5       |
|----------|------------------------|---------|---------|
| 117701   | RS-232-485/422         | \$49.95 | \$44.95 |
| 197931   | RS-232-485/422         | 59.95   | 53.95   |
| 122956   | RS-232-485/422 OPT ISO | 89.95   | 80.95   |

## ATEN RS-232 to RS-485/422 Bidirectional Converter

- Automatic internal RS-485 bus supervision
- No internal flow control for RS-485 required
- Point-to-point, multi drop, and simplex/duplex link selectable
- Supports transfer speeds of up to 115.2 Kbps
- Supports up to 32 receivers to be set in multi drop installations
- Extends up to 4000 feet through networking cables
- Maximum 2000V Isolation Protection



| Part No. | Mfr. Part No. | 1       | 5       |
|----------|---------------|---------|---------|
| 2115733  | IC485AI       | \$99.95 | \$89.95 |

## ATEN Bidirectional Non-Buffered Serial-to-Parallel Converter

- Bidirectional conversion of parallel and serial signals
- Serial interface: hardware handshake RTS/CTS, software handshake Xon/Xoff; DCE/DTE selectable; parity: odd, even, or no parity; data bits: 7, 8
- Connectors: one DB25 female and one Centronics 36-pin male
- One-year warranty
- Stop bits: 1 or 2 • Baud rate: 300 to 38,400bps
- Weight: 0.8 lbs. • Size: 4.0"L x 2.5"W x 1.0"H



Includes: AC adapter (9VAC @ 200mA) and manual

| Part No. | Mfr. Part No. | 1       | 5       |
|----------|---------------|---------|---------|
| 116935   | 5XP320        | \$34.95 | \$32.95 |

\* Bidirectional Converters Online — Enter Web Code KEM

## Serial ATA to IDE Converter

This serial ATA to IDE converter allows standard parallel ATA hard disk drives, CD-ROM, CD-RW, DVD-ROM, DVD + RW, to be used with serial ATA PCI cards or motherboards with serial ATA ports and meet the specification of serial ATA 1.0 interface.



- Compliance with Serial ATA Gen. 1.0
- Master/slave device emulation support
- Supports PIO mode 0 ~ 4, Ultra DMA mode 0 ~ 7, UDMA transfer rates of up to 150Mbps, ATAPI command set and 48-bit LBA addressing

**System Requirements:** PC with available Ultra ATA hard disk (IDE) and available Serial ATA host port

| Part No. | Mfr. Part No. | 1       | 5       |
|----------|---------------|---------|---------|
| 1944661  | AD3300        | \$19.95 | \$17.95 |

## AverKey Pro PC-to-TV Converter Box

- Converts VGA video or Macintosh® 640 x 480 to standard NTSC
- Built-in flicker filter
- Resolution: 800 x 600
- TV brightness control
- Compatible w/ Microsoft® Windows® 3.0 and higher
- Weight: 2.2 lbs. • Two-year warranty



**System Requirements:** VGA-based PC, DOS 3.0 or higher, 640kb RAM or larger

Includes: PC-to-TV converter, adapter, cables & manual

| Part No. | Description      | 1       | 5       |
|----------|------------------|---------|---------|
| 167193   | Video signal pro | \$64.95 | \$59.95 |

## USB 2.0 Multi-Plus Card Reader/Writer

- Transfer rate of up to 480Mb/sec.
- Allows data exchange in different slots
- 4 slots support compact flash, IBM Microdrive, SmartMedia, memory stick, SD and MMC devices



| Part No. | Mfr. Part No. | 1      | 5      |
|----------|---------------|--------|--------|
| 1944716  | RU2340        | \$9.95 | \$8.95 |

## USB 2.0 Docking Station

- Connects via USB-A port to your laptop
- Size: 4.8"W x 2.5"D x 1.0"H



**System Requirements:** PC with 75MHz min. Pentium® or equivalent; 16MB of RAM min., available USB-A port, Windows® 98 or later

| Part No. | Description  | 1      | 5      |
|----------|--------------|--------|--------|
| 527822   | USB 2.0 dock | \$9.95 | \$8.95 |

## USB 3.0 4-Port Hub

Expands a single USB port into four so that there are more ports available to connect devices to a host system.



- Power: 5VDC (2A)
- Certificates: FCC

**System Requirements:** Windows® 7, Vista, XP, 2003, 2000, ME/ Mac® OS 10.X/ various Linux Kernels

| Part No. | Description        | 1       | 5       |
|----------|--------------------|---------|---------|
| 2119646  | USB 3.0 4-port hub | \$69.95 | \$59.95 |

## USB 4-Port Squid Hub

Expands a single USB port into four so that there are more ports available to connect devices to a host system.



- Compatible with USB 1.1 & 2.0 interface
- Supports Plug-and-Play function
- Speed: 1.5 Mbps – 480 Mbps

**System Requirements:** Window® 98, ME, 2000, XP, 7, Vista/ Mac® OS 10.1 or higher

| Part No. | Description          | 1       | 5       |
|----------|----------------------|---------|---------|
| 2119654  | 4-port USB squid hub | \$14.95 | \$13.49 |

## USB 2.0 4-Port Hubs

Add multiple high performance USB 2.0 peripheral devices to your PC. Fully compliant with USB specifications. Fully backwards compatible with USB 1.1 devices.

- Overcurrent detection & protection
- Compatible with USB specification Rev. 2.0 (data rate 1.5/12/480Mbps)
- 1 upstream & 4 downstream ports
- Connects up to 127 USB devices
- Supports Windows® 98SE/ME/2000/Server 2003/ XP/Vista; MAC® OS 8.6 or higher • Plug-and-play



- 1944687: Bus-power & self-power mode used
- Automatic connection & speed detection

1944695:

- 4 LED indicators for downstream port status
- Self-power mode used separate AC adaptor required P/N 252736, pg 121 • High speed

| Part No. | Mfr. Part No. | 1       | 5       |
|----------|---------------|---------|---------|
| 1944687  | HU2044        | \$12.95 | \$11.49 |
| 1944695  | HU2542        | 14.95   | 13.49   |



## ATEN Bidirectional Serial-to-Parallel Converter

115.2kbps, 512kB Buffer

- One DB25 female connector, one Centronics 36-pin male connector • Fully compatible w/ Win® 95
- Baud rate: 300bps – 115,200bps
- FCC class A certified, CE certified
- LED indicator for parallel busy status • DCE/DTE selectable • Stop bits: 1 or 2

Includes: 9VAC @ 200mA adapter



| Part No. | Mfr. Part No. | Size (L" x W" x H") | Wt. (lbs.) | 1       | 10      |
|----------|---------------|---------------------|------------|---------|---------|
| 182983   | 5XP3254       | 3.8 x 2.4 x 1.0     | 0.8        | \$45.95 | \$41.95 |

## IBM® 10 Base-T

10 Base-T

Although designed to the exact standards of IBM for use in large corporate networks, its price and easy setup make it perfect for small office or home office use. Compatible with all standard STP, UTP, and FTP cables. Can be cascaded to support larger networks via the MDI (uplink) port.



| Part No. | Mfr. Part No. | Size (W" x D" x H") | Wt. (lbs.) | 1       | 5       |
|----------|---------------|---------------------|------------|---------|---------|
| 226149   | 8242          | 8.7 x 5.3 x 1.1     | 1.7        | \$19.95 | \$17.95 |



## USB 3.0 2-Port PCI Express Card

Can be inserted into an expansion slot of a computer motherboard to add functionality to a computer system.



- Supports high-speed data transfer rate up to 5 Gbps (10x faster than USB 2.0)
- Supports USB 3.0 hot-swapping and Plug-and-Play capability
- Dimensions: 3.2"L x 2.7"W x 1.6"H

**System Requirements:** Windows® 2000, XP, Vista, Windows® 7/Mac® OS 10.3 or higher

| Part No. | Description             | 1       | 10      |
|----------|-------------------------|---------|---------|
| 2119620  | USB 3.0 2-port PCI card | \$39.95 | \$35.95 |

## USB 3.0 2-Port PCMCIA Express Card

- Supports high-speed data transfer rate up to 5 Gbps
- Supports USB 3.0 hot-swapping and Plug-and-Play capability
- Dimensions: 4.6"L x 1.6"W x 0.6"H



**System Requirements:** Windows® XP, Vista, Windows® 7/Mac® OS 10.3 or higher

| Part No. | Description          | 1       | 10      |
|----------|----------------------|---------|---------|
| 2119638  | USB 3.0 express card | \$34.95 | \$32.95 |

## USB 2.0 to SATA/IDE Combo Adapter

Keep the existing IDE drive while at the same time migrating to the new SATA technology, which provides a transfer rate of up to 150Mbps. Any SATA or IDE drives can be turned into an external USB 2.0 storage device.



- SATA 1.0a and USB 2.0 compliant
- Dual-headed IDE connector (4- and 44-pin) plus one SATA connector that supports 2.5"/3.5"/5.5"
- Operates one IDE and one SATA HDD simultaneously
- External power supply provided

**System Requirements:** IBM compatible Pentium® 233MHz, USB, Windows® 98SE/ME/XP, MAC OS 8.6 or later

| Part No. | Mfr. Part No. | 1       | 5       |
|----------|---------------|---------|---------|
| 2075815  | AS1200        | \$49.95 | \$44.95 |

## USB 2.0 Ethernet Adapter

A high performance, highly integrated USB 2.0 bus Ethernet controller with embedded 7k x 16 bit SRAM.



- USB 2.0 and 1.1 compliant
- IEEE802.3 (10Base-T) & 802.3u (100Base-TX)
- Supports suspend mode and remote wake up via link-up
- Supports full-duplex and half-duplex operations
- Size: 2.8"L x 2.0"W x 1.3"H

**System Requirements:** IBM compatible Pentium® 233MHz or faster, 64MB or more, USB port available, Windows® XP/2000/Vista 32/64-bit, Mac® OS 10.x

| Part No. | Mfr. Part No. | 1       | 5       |
|----------|---------------|---------|---------|
| 1944513  | AE2201        | \$21.95 | \$19.95 |

\*Web Code: SDR

## USB-A to Mini USB Adapters



- USB 2.0 compliant
- USB-A to Mini USB 5-Pin Female**
- Data transfer speed: up to 200 Mbps
- Fully shielded to reduce EMI interference sources
- Dimensions: 1.4"L x 0.7"W x 0.4"H

| Part No. | Description          | 1      | 10     |
|----------|----------------------|--------|--------|
| 2119769  | A male to mini USB   | \$2.69 | \$2.55 |
| 2119777  | A female to mini USB | 2.69   | 2.55   |

### USB-A to Mini USB 5-Pin Male

- Metal neck with nickel plating
- Dimensions: 2.0"L x 0.7"W x 0.4"H

| Part No. | Description          | 1      | 10     |
|----------|----------------------|--------|--------|
| 2119689  | A male to mini USB   | \$1.95 | \$1.75 |
| 2119697  | A female to mini USB | 1.95   | 1.75   |

## USB Gender Adapter

- USB-A female to USB-A female
- Dimensions: 1.5"L x 0.7"W



| Part No. | Description  | 1      | 10     | 25     |
|----------|--------------|--------|--------|--------|
| 316806   | USB-A female | \$2.95 | \$2.65 | \$2.39 |

## USB 2.0 Active Repeater Cable

- This is an active repeater cable and not a passive extension cable for connecting USB devices to your computer. The repeater cable regenerates the USB signal for maximum reliability and performance over extended distances at maximum transfer rates of 480Mbps.
- Repeater cable length: 5m (16.4 ft.)
  - Cascaded up to 5 to extend distance to 25m (81 ft.) between USB device and computer
  - Regenerates the USB signal for maximum reliability and performance over extended distances



**Requirements:** Desktop or laptop with available USB port, Windows® 98SE/ME/2000/XP or Mac OS X

| Part No. | Cross Ref. No. | 1       | 5       |
|----------|----------------|---------|---------|
| 2075840  | AR2500         | \$13.95 | \$12.55 |

## Helping You Find What You Need



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## JAMECO ValuePro

## USB 2.0 Cables



- Higher transfer rate up to 480Mbps
- Backward compatible with USB 1.1 products

### USB-A Male to USB-A Male

\*Web Code: NAV

| Part No. | Description     | 1      | 10     | 25     |
|----------|-----------------|--------|--------|--------|
| 326474   | 3' cable beige  | \$1.95 | \$1.75 | \$1.59 |
| 229682   | 6' cable beige  | 2.05   | 1.85   | 1.65   |
| 222033   | 6' cable black  | 2.05   | 1.85   | 1.65   |
| 229690   | 10' cable beige | 2.35   | 2.09   | 1.85   |
| 229569   | 10' cable clear | 2.35   | 2.09   | 1.85   |
| 222050   | 15' cable black | 3.25   | 2.95   | 2.65   |
| 229577   | 15' cable clear | 3.25   | 2.95   | 2.65   |

### USB-A Male to USB-B Male

| Part No. | Description     | 1      | 10     | 25     |
|----------|-----------------|--------|--------|--------|
| 229711   | 3' cable beige  | \$1.95 | \$1.75 | \$1.59 |
| 222608   | 3' cable black  | 1.95   | 1.75   | 1.59   |
| 229585   | 3' cable clear  | 1.95   | 1.75   | 1.59   |
| 229730   | 6' cable beige  | 2.05   | 1.85   | 1.65   |
| 222010   | 6' cable black  | 2.05   | 1.85   | 1.65   |
| 229594   | 6' cable clear  | 2.05   | 1.85   | 1.65   |
| 229738   | 10' cable beige | 2.35   | 2.09   | 1.85   |
| 222018   | 10' cable black | 2.35   | 2.09   | 1.85   |
| 229607   | 10' cable clear | 2.35   | 2.09   | 1.85   |
| 229762   | 15' cable beige | 3.25   | 2.95   | 2.65   |
| 222026   | 15' cable black | 3.25   | 2.95   | 2.65   |
| 229614   | 15' cable clear | 3.25   | 2.95   | 2.65   |

### USB-A Male to USB-A Female

| Part No. | Description     | 1      | 10     | 25     |
|----------|-----------------|--------|--------|--------|
| 326482   | 3' cable beige  | \$1.95 | \$1.75 | \$1.59 |
| 229771   | 6' cable beige  | 2.05   | 1.85   | 1.65   |
| 222068   | 6' cable black  | 2.05   | 1.85   | 1.65   |
| 229623   | 6' cable clear  | 2.05   | 1.85   | 1.65   |
| 229789   | 10' cable beige | 2.45   | 2.19   | 1.95   |
| 222076   | 10' cable black | 2.45   | 2.19   | 1.95   |
| 229631   | 10' cable clear | 2.25   | 1.95   | 1.75   |
| 229797   | 15' cable beige | 3.25   | 2.95   | 2.65   |
| 222084   | 15' cable black | 3.25   | 2.95   | 2.65   |

### USB-A Male

- For use w/ digital cameras, memory card readers, etc.
- Color: black



| Part No. | Description     | 1      | 10     | 25     |
|----------|-----------------|--------|--------|--------|
| 673715   | 6' mini 4-pin   | \$3.95 | \$3.59 | \$3.39 |
| 2081481  | 5'6" mini 5-pin | 2.25   | 1.95   | 1.65   |
| 673694   | 6' mini 5-pin   | 2.75   | 2.45   | 2.25   |

## USB 3.0 Cables

### USB-A Male to USB-B Male

- SuperSpeed with 5Gbps data transfer rate
- 10X performance increase over USB 2.0
- Hot syncing
- SuperSpeed USB is backwards compatible with USB 2.0



| Part No. | Description     | 1      | 10     | 25     |
|----------|-----------------|--------|--------|--------|
| 2095218  | 6' cable black  | \$6.95 | \$6.25 | \$5.49 |
| 2095226  | 10' cable black | 7.95   | 7.15   | 6.49   |

\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

## High Speed USB Extender Cable

An active device where the USB signals going in and out of the extension cable are buffered to assure signal quality and adherence to electrical and timing specs.

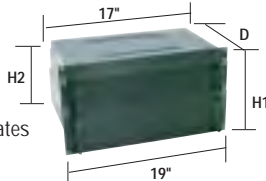


- Full compliance with USB spec Ver. 2.0/1.1
- Supports 480Mbit/s high speed 12Mbit/s full speed, and 1.5Mbit/s low speed serial data communication
- One upstream port and one downstream port
- Windows® 98 & higher or Mac® OS compatible
- Supports plug & play and hot-swap functions
- USB-A male to USB-A female
- Bus power mode • Length: 16 ft.

| Part No. | Cross Ref. No. | 1       | 5       |
|----------|----------------|---------|---------|
| 1919174  | 10U2-24116     | \$18.95 | \$16.95 |

## 19" Rack Mount Enclosures

- Ventilation holes on all sides
- Front and back panels are steel w/ aluminum, pre-punched face plates
- 0.12" thick black front panel
- Top, bottom and sides are durable 0.035" steel
- All enclosures have handles except P/N 132813



Includes: Mounting screws

| Part No. | Dimensions (In.) |      |       | Wt. (lbs.) | Pricing |         |
|----------|------------------|------|-------|------------|---------|---------|
|          | H1               | H2   | D     |            | 1       | 5       |
| 132813   | 1.73             | 1.25 | 9.75  | 6.2        | \$39.95 | \$35.95 |
| 132822   | 3.46             | 3.00 | 9.75  | 7.9        | 51.95   | 46.95   |
| 132840   | 3.46             | 2.88 | 11.75 | 9.1        | 54.95   | 49.95   |
| 132848   | 5.22             | 4.75 | 11.75 | 10.6       | 59.95   | 53.95   |
| 132864   | 8.56             | 8.00 | 13.50 | 15.4       | 109.95  | 99.95   |

\* Rack Mounts Available Online — Enter Web Code GAT

## 19" Rack Mount Cat 5 Patch Panel

These Cat 5 patch panels feature 110D punch locks that are compatible with KRONE or 110D tools. UL and CUL listed and certified. Cat 5 certified and can be used with T568 A/B installations, color coded blocks for T568 color coding.



| Part No. | Description         | 1       | 5       |
|----------|---------------------|---------|---------|
| 208785   | 24-port patch panel | \$24.95 | \$22.49 |

## 19" Rack Mount Enclosure for 14" Monitor

- Clear glass front panel
- Hinged door for accessing monitor controls
- Color: gray
- Size: 19.0"W x 15.1"D x 14.0"H
- Weight: 30 lbs.



Monitor not included

| Part No. | Product No. | Price    |
|----------|-------------|----------|
| 136021   | IAC-C910    | \$119.95 |

## QuickNetwork Install Can

- Type: Install can for QuickNetwork panels
- Feature: power supply and cover installed
- Size: 24"



| Part No. | Mfr. Part No. | 1       | 5       |
|----------|---------------|---------|---------|
| 636607   | QN24          | \$59.95 | \$49.95 |

## Cable Assemblies

| Part No.      | Mfr. | Length | 1 | 10 | 50 |
|---------------|------|--------|---|----|----|
| 262730/262748 |      |        |   |    |    |

### 75Ω RG-59/U BNC – BNC

| Part No. | Mfr.     | Length | 1      | 10     | 50     |
|----------|----------|--------|--------|--------|--------|
| 262730   | ValuePro | 25'    | \$6.95 | \$6.25 | \$5.49 |
| 262748   | ValuePro | 50'    | 8.95   | 7.95   | 7.25   |

### 75Ω BNC – BNC and Jack-to-Plug

| Part No. | Mfr.   | Length | 1       | 5       |
|----------|--------|--------|---------|---------|
| 1581409  | Elyssa | 100'   | \$24.95 | \$22.45 |

### 75Ω RG-59 F-Type

| Part No. | Mfr.     | Length | 1     | 10    |
|----------|----------|--------|-------|-------|
| 85585    | ValuePro | 3'     | \$4.9 | \$4.5 |

## Cabinet Mounting Plate for 19" Cabinet

- Use as industrial chassis mounting plate for servers, PCs or patch panels
- Size: 19.0"W x 15.8"D x 3.5"H
- Made of industrial grade steel and aluminum



| Part No. | Product No. | 1       | 10      |
|----------|-------------|---------|---------|
| 149500   | UP02        | \$34.95 | \$31.95 |

## ValuePro USB-A Cables w/ Bracket

- Supports data transfer rates of 12Mbps
- Allows connection of two devices
- Dual USB-A female connectors • 8" long



| Part No. | Description        | 1      | 10     | 25     |
|----------|--------------------|--------|--------|--------|
| 144813   | Female panel mount | \$4.25 | \$3.75 | \$3.25 |
| 319652   | Male panel mount   | 1.49   | 1.35   | 1.19   |

## USB-to-DB9 Serial Adapters

- USB-A to DB9 male
- Length: 13"
- Supports automatic handshake mode
- Over 230kbps data transfer rate
- 96 byte buffer each for upstream and downstream data flow
- Works with cellphones, PDA, digital cameras, modems and ISDN terminal adapters



| Part No. | Description      | 1       | 5       |
|----------|------------------|---------|---------|
| 387954   | With jack screws | \$18.95 | \$16.95 |
| 2115346  | With thumbscrews | 18.95   | 16.95   |

## SCSI Cable

- 50-pin header socket ribbon cable SCSI-I



| Part No. | Description      | 1      | 10     | 100    |
|----------|------------------|--------|--------|--------|
| 32715    | 18" ribbon cable | \$3.75 | \$3.49 | \$2.95 |

## Ribbon Cable Assemblies

- Metal connector
- 28 AWG flat cable
- 105°C rating
- 300V rating
- Tin-plated contacts



| Part No. | Description           | 1      | 10     | 100    |
|----------|-----------------------|--------|--------|--------|
| 12408    | 4' DB25 M-F           | \$4.95 | \$4.45 | \$3.95 |
| 208582   | 6' DB9 M-F (ValuePro) | 4.95   | 4.45   | 3.95   |

## AT/ATX Power Supply Extension Cable

- For use with ATX power supplies
- 20-pin ATX male and female connectors
- Color coded to ATX power supply



| Part No. | Length | AWG | 1      | 10     | 100    |
|----------|--------|-----|--------|--------|--------|
| 170238   | 15"    | 18  | \$8.95 | \$7.95 | \$6.95 |



## Quick and Easy Search

Our enhanced website offers thousands of datasheets and photos to assist you in finding the products you need.

## ValuePro Serial Null Modem Cables

- Molded type connectors
- Color: gray
- 181404/180698 Pin outs: 1 & 6-4, 2-3, 3-2, 4-6 & 1, 5-5, 7-8, 8-7

\* Web Code: ABE



- 181438 Pin outs: 2-2; 3-3; 5 & 6-4; 7-5; 8-7; 20-6 & 8 (Serial printer null modem)



- 180582 Pin outs: 2-2; 3-3; 4-5 & 6; 5-7; 6 & 8-20; 7-8; (Serial printer null modem)



- 180742 Pin outs: 1-4 & 5; 2-2; 3-3; 4-6; 5-7; 6-20; 7-8; 8-8

| Part No. | Mfr.     | Description         | 1      | 10     | 50     |
|----------|----------|---------------------|--------|--------|--------|
| 181404   | ValuePro | 6' DB9 F to DB9 F   | \$5.55 | \$4.95 | \$4.49 |
| 180698   | ValuePro | 10' DB9 F to DB9 F  | 6.75   | 5.95   | 5.45   |
| 181438   | Various  | 6' DB25 M to DB9 F  | 5.55   | 4.95   | 4.49   |
| 180742   | ValuePro | 10' DB25 F to DB9 F | 6.95   | 6.25   | 5.65   |
| 180582   | ValuePro | 10' DB25 M to DB9 F | 5.95   | 5.35   | 4.75   |

## ValuePro IEEE Firewire Cables



- IEEE-1394 compliant
- Length: 6'
- UL approved
- Male to male

\* Web Code: FAE

| Part No. | Cross Ref. No. | Description | 1       | 5       | 25      |
|----------|----------------|-------------|---------|---------|---------|
| 1944134  | 10E4-991-06-C  | 9-pin/9-pin | \$16.95 | \$15.25 | \$13.75 |
| 175848   | 10E3-01106-R   | 6-pin/6-pin | 5.95    | 5.35    | 4.75    |
| 175839   | 10E3-02106-R   | 4-pin/6-pin | 2.95    | 2.65    | 2.39    |

## ValuePro IEEE 488 Cables

A variety of cable lengths are offered to ensure that IEEE system requirements are met (20 meters max. length with a maximum of 15 devices). These cables are standard IEEE 488 with stackable 24-pin GPIB connectors on both ends.



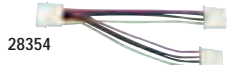
\* Web Code: EAJ

| Part No. | Description | Color | 1       | 5       | 25      |
|----------|-------------|-------|---------|---------|---------|
| 73155    | 1 meter     | Gray  | \$39.95 | \$35.95 | \$31.95 |
| 115782   | 2 meter     | Gray  | 41.95   | 36.95   | 32.95   |
| 115802   | 4 meter     | Gray  | 42.95   | 37.95   | 33.95   |



## 3.5" & 5.25" Disk Drive Power Splitters and Adapters

- IBM PC/XT and higher compatibles
- 28354/277528/72304: Splits 4-line Molex male into 2 females



\*Web Code: OAE

| Part No. | Drive | AWG | Length | 1      | 10     | 100    |
|----------|-------|-----|--------|--------|--------|--------|
| 28354    | 5.25" | 18  | 5"     | \$2.75 | \$2.49 | \$1.95 |
| 277528   | 5.25" | 20  | 6"     | 1.55   | 1.39   | 1.25   |
| 72304    | 3.5"  | 22  | 5"     | 3.75   | 3.49   | 2.95   |
| 28397    | 3.5"  | 22  | 3.5"   | 4.75   | 4.25   | 3.79   |

## CD-ROM Audio Cables



| Part No. | Sound Blaster to | Length | 1      | 10     | 25     |
|----------|------------------|--------|--------|--------|--------|
| 127546   | Sony/MP3C2       | 25"    | \$1.95 | \$1.75 | \$1.49 |
| 168613   | Universal        | 18"    | 2.49   | 2.25   | 1.95   |

## Keyboard Adapters

- 157930/159097: Connect AT type keyboards to PS/2
- 5-pin female DIN to 6-pin male mini DIN



- 189771: Connect PS/2 keyboard to AT
- 6-pin female mini DIN to 5-pin male DIN connector

316831: • USB-A female to PS/2 male

Blue Part No. = Limited Quantity Available

| Part No. | Length | Material      | 1      | 10     | 100    |
|----------|--------|---------------|--------|--------|--------|
| 159097   | 1.4"   | Metal         | \$1.95 | \$1.75 | \$1.59 |
| 157930   | 1.7"   | Plastic/metal | .39    | .35    | .29    |
| 189771   | 1.7"   | Plastic       | .95    | .85    | .75    |
| 316831   | 2.0"   | Plastic       | 1.49   | 1.35   | 1.19   |

## Macintosh® Printer and Keyboard Cables



| Part No. | Mfr.     | Description      | 1      | 10     | 100    |
|----------|----------|------------------|--------|--------|--------|
| 1944994  | Various  | 40" DIN8M w/ EMI | \$2.95 | \$2.49 | \$2.25 |
| 10604    | ValuePro | 6' DIN8M         | 3.95   | 3.49   | 3.05   |
| 130025   | ValuePro | 10' DIN8M        | 4.95   | 4.45   | 3.95   |

## Monitor/Mouse/Keyboard Cable

HDDB15 male/female for monitor, 5-pin DIN male/female for keyboard and DB9 male/female for mouse.



| Part No. | Product No. | Length | 1      | 5      |
|----------|-------------|--------|--------|--------|
| 141284   | G/S(KVM062) | 6'     | \$9.95 | \$8.95 |

## PS/2 & AT Cables

- Non-coiled cable

\*Web Code: HAE

### PS/2 6-Pin Mini DIN, Male to Male

- For use with switch box

| Part No. | Length | Color | 1      | 10     | 100    |
|----------|--------|-------|--------|--------|--------|
| 177261   | 2'     | Gray  | \$1.75 | \$1.49 | \$1.25 |
| 174772   | 6'     | Black | 3.95   | 2.95   | 2.49   |
| 174908   | 6'     | Beige | 3.49   | 2.95   | 2.49   |
| 112628   | 10'    | Beige | 7.95   | 7.25   | 5.95   |
| 205655   | 25'    | Beige | 7.95   | 6.95   | 6.25   |

### PS/2 6-Pin Mini DIN, Male to Female

- For cable extension

| Part No. | Length | Color | 1      | 10     | 100    |
|----------|--------|-------|--------|--------|--------|
| 28549    | 6"     | Beige | \$4.75 | \$4.25 | \$3.95 |
| 111053   | 10"    | Beige | 4.95   | 4.45   | 3.95   |

### PC/XT/AT 5-Pin Mini DIN, Male to Female

| Part No. | Length | Color | 1      | 10     | 100    |
|----------|--------|-------|--------|--------|--------|
| 114981   | 6'     | Beige | \$1.95 | \$1.75 | \$1.49 |

## SATA Data Cables

- 0.5m, 7-pin cable
- SATA-I & SATA-II compatible

2114407: eSATA (external)

| Part No. | Connector A/B                       | Cable Color     | 1      | 10     | 100    |
|----------|-------------------------------------|-----------------|--------|--------|--------|
| 2114327  | Right angle/right angle             | Transparent red | \$2.49 | \$2.25 | \$1.95 |
| 2114386  | Right angle/straight                | Red             | 2.65   | 2.39   | 2.15   |
| 2114301  | Straight/straight                   | Transparent red | 2.49   | 2.25   | 1.95   |
| 2114407  | Straight latching/straight latching | Red             | 2.65   | 2.39   | 2.15   |

\*Web Code: SAC

## SATA Disk Drive Power Adapters

- 4-pin Molex to 15-pin SATA

| Part No. | Molex    | SATA              | Length | 1      | 10     | 100    |
|----------|----------|-------------------|--------|--------|--------|--------|
| 2114343  | 5.25 (M) | Straight (F)      | 6"     | \$2.29 | \$1.95 | \$1.79 |
| 2114351  | 5.25 (M) | Dual straight (F) | 6"     | 2.49   | 2.29   | 2.09   |
| 2114360  | 5.25 (F) | Straight (M)      | 7"     | 4.95   | 4.49   | 3.95   |
| 2114378  | 5.25 (M) | Right angle (M)   | 6"     | 2.29   | 1.95   | 1.79   |

\*Web Code: SAD

## ADAM TECH

## SATA Connectors

These SATA connectors combine hot plug capability with a combination of power and signal contacts in a blindmate design. They are ideal for connecting disk drives to backplanes in servers or networking equipment.

- 55°C to 125°C
- UL94V-0 approved
- Black insulator
- Gold flash over nickel plating

| Part No. | Description                   | 1      | 10     | 100    |
|----------|-------------------------------|--------|--------|--------|
| 2113973  | 7-pin right angle, SMT        | \$ .65 | \$ .55 | \$ .45 |
| 2113990  | 7 & 15 pin dual vertical, SMT | 1.49   | 1.29   | 1.09   |

\*Web Code: SAT



## USB/DB25-to-Centronics Parallel Printer Cables

- 155352: USB-A Male to 36-pin Male Centronics
- Full compliance with USB spec Ver. 1.
- Applicable to standard and bidirectional printers



- 28716/28708: DB25 Male to 36-pin Male Centronics
- IBM PC/XT and higher compatibles

| Part No. | Description                   | 1      | 10     |
|----------|-------------------------------|--------|--------|
| 155352   | 6' 36-pin Centronics to USB   | \$9.95 | \$8.95 |
| 28716    | 6' 36-pin Centronics to DB25  | 4.95   | 4.49   |
| 28708    | 15' 36-pin Centronics to DB25 | 1.49   | 1.35   |

## DB9-to-DB25 AT-Adapter Serial Cables

- For DB9 serial ports which need to be converted to DB25 serial
- AT and compatibles
- Molded DB9 female to DB25 male connectors



| Part No. | Description       | 1      | 10     | 100    |
|----------|-------------------|--------|--------|--------|
| 109584   | 1' serial, beige  | \$2.95 | \$2.65 | \$2.25 |
| 189333   | 3' serial, beige  | 3.25   | 2.95   | 2.49   |
| 31722    | 6' serial, beige  | 4.95   | 4.49   | 3.95   |
| 1945575  | 6' serial, gray   | 4.49   | 3.95   | 2.95   |
| 155522   | 10' serial, beige | 5.95   | 5.35   | 4.79   |

## External Serial ATA Cables

These eSATA cables offer the fastest data-transfer speeds available, improving performance for internal PCs and external storage. Faster than USB 2.0 and 1394 external storage solutions.



| Part No. | Length | Color | 1       | 10      | 100    |
|----------|--------|-------|---------|---------|--------|
| 2115645  | 3'     | Black | \$11.95 | \$10.95 | \$9.95 |
| 2115653  | 6'     | Black | 11.95   | 10.95   | 9.95   |

We Offer Data Sheets for Most of the Products We Carry. Find Them Easily on the Product Specification Page.

[www.Jameco.com](http://www.Jameco.com)

\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above



JAMECO ValuePro

## Computer Cables



**Extension Cables** • All lines connected straight through

| Part No. | Description   | Length (ft.) | Color | 1      | 10     | 100    |
|----------|---|--------------|-------|--------|--------|--------|
| 2075971  | DB9 male-to-female w/ thumbscrews & filter, w/ green connectors | 6            | Black | \$4.49 | \$3.95 | \$3.49 |
| 199639   | DB9 male-to-female w/ thumbscrews                               | 6            | Black | 5.25   | 4.75   | 4.25   |
| 25701    | DB9 male-to-female w/ thumbscrews                               | 6            | Beige | 5.95   | 5.35   | 4.79   |
| 148516   | DB9 male-to-female w/ thumbscrews                               | 10           | Beige | 6.95   | 6.25   | 5.49   |
| 181666   | DB9 male-to-male  | 10           | Beige | 6.95   | 6.25   | 5.49   |
| 181286   | DB15 male-to-male   | 6            | Gray  | 6.55   | 5.95   | 5.25   |
| 181359   | DB15 male-to-female   | 6            | Gray  | 5.49   | 4.95   | 4.45   |
| 134042   | HDDB15 male w/ thumbscrews to female w/ hex nuts                | 6            | Beige | 4.95   | 4.45   | 3.95   |
| 66165    | HDDB15 male-to-female w/ thumbscrews                            | 6            | Beige | 7.95   | 6.95   | 6.25   |
| 148532   | HDDB15 male-to-female w/ thumbscrews                            | 10           | Beige | 8.95   | 7.95   | 6.95   |
| 66174    | HDDB15 male-to-male   | 6            | Beige | 6.95   | 6.25   | 5.49   |
| 148523   | HDDB15 male-to-male   | 10           | Beige | 5.95   | 5.35   | 4.79   |
| 224267   | DB25 female-to-female w/ thumbscrews                            | 6            | Gray  | 7.95   | 6.95   | 5.95   |
| 164291   | DB25 male-to-female w/ thumbscrews                              | 3            | Gray  | 3.95   | 3.55   | 3.05   |
| 175291   | DB25 male-to-female w/ thumbscrews                              | 3            | Black | 3.75   | 3.35   | 2.95   |
| 67257    | DB25 male-to-female w/ thumbscrews                              | 6            | Gray  | 7.95   | 6.95   | 5.95   |
| 39511    | DB25 male-to-female w/ thumbscrews                              | 10           | Gray  | 7.95   | 6.95   | 6.25   |
| 177279   | DB25 male-to-female w/ thumbscrews                              | 15           | Gray  | 7.95   | 6.95   | 6.25   |
| 101996   | DB25 male-to-female w/ thumbscrews                              | 25           | Gray  | 11.95  | 10.75  | 9.65   |
| 181201   | DB25 male-to-female w/ thumbscrews                              | 50           | Gray  | 19.95  | 17.95  | 15.95  |
| 174001   | DB25 male-to-male w/ thumbscrews                                | 3            | Black | 4.95   | 4.45   | 3.95   |
| 401138   | DB25 male-to-male w/ thumbscrews                                | 3            | Gray  | 3.95   | 3.49   | 2.95   |
| 65788    | DB25 male-to-male w/ thumbscrews                                | 6            | Gray  | 7.75   | 6.95   | 6.25   |
| 39538    | DB25 male-to-male w/ thumbscrews                                | 10           | Gray  | 6.95   | 6.25   | 5.49   |
| 179979   | DB25 male-to-male w/ thumbscrews                                | 15           | Gray  | 5.95   | 5.25   | 4.75   |
| 67071    | DB25 male-to-male w/ thumbscrews                                | 25           | Gray  | 9.95   | 8.95   | 7.95   |
| 181295   | DC37 male-to-female   | 6            | Gray  | 5.95   | 5.35   | 4.75   |

★ Web Code: CCS

## Serial Cables

|        |                                     |    |       |        |        |        |
|--------|-------------------------------------|----|-------|--------|--------|--------|
| 132346 | DB9 female-to-female w/ thumbscrews | 6  | Beige | \$4.95 | \$4.45 | \$3.95 |
| 196366 | DB9 female-to-female w/ thumbscrews | 10 | Beige | 6.95   | 6.25   | 5.49   |

## Monitor Cable

|       |                                 |   |       |        |        |        |
|-------|---------------------------------|---|-------|--------|--------|--------|
| 66157 | DB9 male-to-male w/ thumbscrews | 6 | Beige | \$4.95 | \$4.45 | \$3.95 |
|-------|---------------------------------|---|-------|--------|--------|--------|

## IEEE 1284 Cables

|        |                                   |    |       |        |        |        |
|--------|-----------------------------------|----|-------|--------|--------|--------|
| 161630 | DB25 male-to-male serial          | 10 | Black | \$1.95 | \$1.75 | \$1.59 |
| 130067 | DB25 male-Centronics parallel 36M | 6  | Beige | 2.95   | 2.65   | 2.25   |

## Audio/Video Adapter

- Converts impedance of video/audio signals to 100Ω for transmission over CAT 5 UTP cable
- Support both NTSC or PAL video signals
- Signal pairs: video (BNC), CAT pairs 4(RJ45); audio 1 (RCA); CAT pair 3 (RJ45); audio 2 (RCA), CAT pair 2 (RJ45)

Includes: Mounting hardware

| Part No. | Description | 1       | 5       |
|----------|-------------|---------|---------|
| 220881   | BNC/RJ45    | \$24.95 | \$22.45 |

## Wireless FM Audio Transmitter

Connects to any audio output source (i.e. iPod, MP3 player, mobile phone, etc.) to play music through your car stereo system.

- Power: 12VDC
- Earphone line: 1.5 meter w/ 3.5 meter phone jack
- Dimensions: 50mm x 30mm x 20mm

| Part No. | Description              | 1       | 5       |
|----------|--------------------------|---------|---------|
| 2119611  | Wireless FM audio trans. | \$19.95 | \$17.95 |

## Web Enabled Catalog

Enter web codes online for additional product listings & specifications. Look for the web code box on the home page.

[www.Jameco.com/More](http://www.Jameco.com/More)

## 3.5" TFT LCD Test Monitor

This display monitor operates on a standard composite video signal. The unit is also wearable, leaving both hands free to work, and it features an OSD for brightness and contrast. Accessories for this LCD include the Armful Bag, BNC with cable, power cable and battery case.

- High resolution (960W x 234H mm dots) flat screen
- Backlight: LED 6 type
- Video signal: NTSC/PAL auto switch
- Power consumption: 2W max.
- Input signal: 1Vp-p, 75Ω
- Power supply: (8) AA batteries or 12VDC adapter
- Outlook size: 96mmL x 98mmW x 25mmD
- Weight: 1.37 lbs. with accessories and package

| Part No. | Product No. | 1        | 5        |
|----------|-------------|----------|----------|
| 2111898  | 15-MC04     | \$194.95 | \$189.95 |

## 2.4GHz Wireless Audio/Video Transmitter & Receiver

- 4-ch transmitter selectable/4-ch receiver viewable
- Video input/output: 1Vp-p composite @ 75Ω
- Audio input/output: 2Vp-p typical, 2.7Vp-p max. @ 600Ω
- RF impedance: 50Ω
- Size: 3.7"W x 2.5"D x 1.3"H

Includes: 12V wall adapter, antenna & mounting hardware

### 2115784: Transmitter

- Current consumption: 350mA typical; 650mA at start-up
- Alarm input: TTL/CMOS (level detection)
- Output power: 1 watt

### 2115709: Receiver

- Sensitivity: -82dBm typical
- Current consumption: 250mA typical

| Part No. | Description                 | 1        | 5        |
|----------|-----------------------------|----------|----------|
| 2115784  | 2.4GHz wireless transmitter | \$149.95 | \$134.95 |
| 2115709  | 2.4GHz wireless receiver    | 89.95    | 79.95    |
| 179864   | 2.4GHz SMA RF antenna       | 5.95     | 5.35     |
| 2081633  | 2.4GHz SMA antenna          | 1.95     | 1.75     |

## Dual Page Color Quad Processor

- Signal format: NTSC/PAL color
- Alarm input: 8
- 4-channels with loop
- Display rate: 60fps/50fps
- Video outputs selectable: 1Vp-p 75Ω
- Video inputs: 1Vp-p, 75Ω
- Memory 1024 x 512
- BNC video connectors
- Date time generator

| Part No. | Product No. | 1        | 5        |
|----------|-------------|----------|----------|
| 638240   | 15-QC43     | \$159.95 | \$149.95 |

## CMU Camera

- Tracks the position and size of a colorful or bright object
- Measures the RGB or YUV statistics of an image region
- Dumps a bitmap showing the shape of the tracked object
- Automatically acquire and tracks the first object it sees
- Physically tracks using a directly connected servo
- Supports multiple CPU boards on one camera for parallel processing

| Part No. | Description            | 1        | 5        |
|----------|------------------------|----------|----------|
| 358467   | 3.5" color LCD monitor | \$129.95 | \$119.95 |

## Color Camera with 8mm Lens

- 1/3" CCD image sensor
- Horizontal res: 420 lines
- Min. illumination: 0.5 lux
- Electronic shutter: 1/120,000 sec.
- 510(H) x 492(V) EIA signal format
- Auto iris lens: DC drive/AES/video drive
- Video output: 1Vp-p, 75Ω • Vertical freq.: 60Hz
- Audio output: 2Vp-p max., 50Ω
- Backlight, auto-gain, and mirror reverse picture switch selectable • S/N ratio: 52dB
- Auto-tracing white balance • 2X digital zoom

Power Requirements: 12VDC @ 150mA

| Part No. | Product No. | 1        | 5        |
|----------|-------------|----------|----------|
| 395461   | 15-CC25     | \$119.95 | \$107.95 |

## Waterproof Tube-Style IR Color Camera

### NTSC Format

- Auto white balance and gain control
- 1/4" CCD image sensor
- Scanning system: 2:1 interlace
- 0 lux w/ 20 IR LEDs
- 880 ~ 940nm infrared wavelength
- 512(H) x 492(V) • 4.3mm lens with F1.8
- For indoor and outdoor use
- 59.94Hz vertical frequency
- 420 horizontal line resolution
- S/N ratio: >48dB • Internal synchronization
- Video output: 1Vp-p, 75Ω • Size: 2.1"Dia. x 3.8"L
- Up to 1/100,00 sec. electronic shutter

Requires: 12VDC @ 160mA power supply (recommend P/N 162996, pg 123)

Includes: Mounting hardware

| Part No. | Product No. | 1        | 5        |
|----------|-------------|----------|----------|
| 319901   | 15-CM25WM   | \$169.95 | \$149.95 |

\* Outdoor Camera Enclosures— Enter Web Code LBB

\* Video Accessories — Enter Web Code YBE

## 900MHz Mini Wireless Color Camera

### With Built-In Microphone

- Receiving frequency: 902-928MHz
- Video output: 1Vp-p, 75Ω
- Audio output: 200mVp-p, 10kΩ
- Power consumption: <2W
- Tuning knob on receiver for fine tuning picture

### Includes:

8VDC @ 500mA & 12VDC @ 500mA adapter, receiver with antenna, mounted color camera, 9V battery clip with 1.3mm x 3.5mm female plug

| Part No. | Description          | 1       | 5       |
|----------|----------------------|---------|---------|
| 2081781  | Mini wireless camera | \$59.95 | \$53.95 |

## Mini Dome Color Camera

- 1/4" CCD image sensor
- 512H x 492V
- Video output: 1Vp-p, 75Ω
- NTSC format
- 3.6mm lens with F2.0
- Horizontal line resolution: 330 lines
- Lux: 2

| Part No. | Product No. | 1       | 5       |
|----------|-------------|---------|---------|
| 171037   | 15-CD25-1   | \$99.95 | \$89.95 |

## Mini Color Camera

- 1/3" Omnivision CMOS
- 510(H) x 492(V), NTSC
- 380 TV lines, 3 lux/F1.2
- Video output: 1Vp-p, 75Ω
- Electronic shutter: 1/50 sec. to 1/100,000 sec.

Includes: 8V @ 500mA power adapter, 9V battery clip with 2.1mm x 5.5mm female plug

| Part No. | Product No. | 1       | 5       |
|----------|-------------|---------|---------|
| 2115362  | CM203CA     | \$29.95 | \$26.95 |

\* Cameras — Enter Web Code MBB

## SONY® Color CCD Camera

### Sony Chipset

- 1/4" Sony super HAD CCD sensor
- 510(H) x 492(V), NTSC
- Furnished mini lens: 3.6mm
- Minimum illumination: 0.5 lux @ F2.0
- Supports these functions: auto electronic shutter (AES), auto iris control (AIC), auto gain control (AGC), auto white balance (AWB), back light compensation (BLC) and flicker less (FL)
- Video drive iris control; high/low switchable auto gain control; on/off backlight compensation
- Video output: 1Vp-p, 75Ω

Requires: 12VDC @ 120mA power supply (recommend P/N 100095, pg 124)

Includes: Power/signal cable & mounting hardware

| Part No. | Description           | 1        | 5        |
|----------|-----------------------|----------|----------|
| 213436   | Enclosed color camera | \$154.95 | \$139.95 |

## Black & White Camera with Lens

### EIA Format

- 1/3" CCD image sensor
- 510(H) x 492(V)
- Horizontal res.: >350 lines
- Sensitivity: 0.7 lux/F2.0
- Pwr. supply: 12VDC (recommend P/N 162996, pg 123)
- Video output: 1Vp-p, composite video 75Ω
- Power consumption: 110mA • FOV: 92°
- Electronic shutter: 1/125,000 sec. (linear)
- S/N ratio: 46dB • Size: 1.3"L x 1.3"W x 1.2"H

| Part No. | Product No. | 1       | 5       |
|----------|-------------|---------|---------|
| 171029   | 15-BB13L-1  | \$44.95 | \$39.95 |

## Mounting Bracket for Enclosed Camera

- Material: white plastic
- Swivel angle: 360° • Tilt angle: 90°
- For use with enclosed cameras

| Part No. | Max Load | Height | 1      | 5      |
|----------|----------|--------|--------|--------|
| 170982   | 6.6 lbs. | 2.0"   | \$3.95 | \$3.49 |

# Crystal Oscillators

## R/C Crystal Oscillators

### 75 MHz, Compatible with Hitec Receivers

- 1 = FM/Q-PCM dual conversion crystal for DCX
- 2 = FM single conversion for HFS-03MM and HIS-03MK
- 3 = AM single conversion for HP-2NRB & HAS-2MB

| Channel | Part No. | Receiver | Part No. | Receiver | Part No. | Receiver |
|---------|----------|----------|----------|----------|----------|----------|
| 61      | 396412   | 1        | 396711   | 2        | 397010   | 3        |
| 62      | 396421   | 1        | 396720   | 2        | 397028   | 3        |
| 63      | 396439   | 1        | 396738   | 2        | 397036   | 3        |
| 64      | 396447   | 1        | —        | —        | 397044   | 3        |
| 65      | 396455   | 1        | 396754   | 2        | 397052   | 3        |
| 66      | 396463   | 1        | 396762   | 2        | 397061   | 3        |
| 67      | 396471   | 1        | 396771   | 2        | 397079   | 3        |
| 68      | 396480   | 1        | —        | —        | 397087   | 3        |
| 69      | 396498   | 1        | —        | —        | 397095   | 3        |
| 70      | 396501   | 1        | 396800   | 2        | 397108   | 3        |
| 71      | 396519   | 1        | 396818   | 2        | 397116   | 3        |
| 72      | 396527   | 1        | 396826   | 2        | 397124   | 3        |
| 73      | 396535   | 1        | 396834   | 2        | 397132   | 3        |
| 74      | 396543   | 1        | 396842   | 2        | 397141   | 3        |
| 75      | 396551   | 1        | 396851   | 2        | 397159   | 3        |

Ⓢ Blue Part No. = Limited Quantity Available

### Pricing per Crystal Oscillator

| Price per crystal | Price  |
|-------------------|--------|
|                   | \$5.95 |



\* Web Code: RCO

For other Crystal Oscillators  
See pages 39 & 40

| Channel | Part No. | Receiver | Part No. | Receiver | Part No. | Receiver |
|---------|----------|----------|----------|----------|----------|----------|
| 76      | —        | —        | 396869   | 2        | 397167   | 3        |
| 77      | 396578   | 1        | 396877   | 2        | 397175   | 3        |
| 78      | 396586   | 1        | —        | —        | 397183   | 3        |
| 79      | 396594   | 1        | 396893   | 2        | 397191   | 3        |
| 80      | 396607   | 1        | 396906   | 2        | 397204   | 3        |
| 81      | 396615   | 1        | 396914   | 2        | 397212   | 3        |
| 82      | 396623   | 1        | 396922   | 2        | 397221   | 3        |
| 83      | 396631   | 1        | —        | —        | 397239   | 3        |
| 84      | 396640   | 1        | 396949   | 2        | 397247   | 3        |
| 85      | 396658   | 1        | 396957   | 2        | 397255   | 3        |
| 86      | 396666   | 1        | —        | —        | 397263   | 3        |
| 87      | 396674   | 1        | 396973   | 2        | 397271   | 3        |
| 88      | 396682   | 1        | —        | —        | 397280   | 3        |
| 89      | 396691   | 1        | —        | —        | 397298   | 3        |
| 90      | 396703   | 1        | 397001   | 2        | 397301   | 3        |

Computer

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

Order by Phone 24/7 at 1-800-831-4242 or Online at [www.Jameco.com](http://www.Jameco.com)

189



Tyrannosaurus Kit

242923



Soccer Insect Kit

358379



Rockit Robot

192567



Running Micro Bug

200328



Audio Amplifier Kit

151204



Boxing Robot

401533



CYBUG Scarab

358045



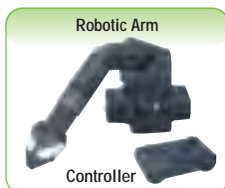
The Spider

140821



iBotz PICO

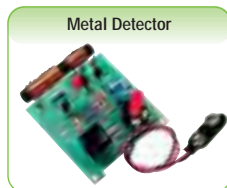
404478



Robotic Arm

Controller

157366



Metal Detector

129091



FM Transmitter

117604



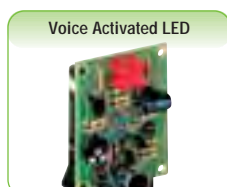
FM Radio Kit

211772



30-Watt Stereo Amplifier

129138



Voice Activated LED

147571



Audio Analyzer

2120815



## Mindstorms NXT 2.0

Create the smartest, strongest and most advanced LEGO robots with this new Lego Mindstorms NXT 2.0. Bigger and revised element assortment of 619 pieces, 16 building and programming challenges for 4 new fun and action packed robot models.

- NXT 32-bit microcontroller with 256k memory
- 2 touch sensors
- 3 interactive servo motors with built-in rotation sensors
- 1 ultrasonic sensor
- Support for Bluetooth, USB 2.0
- Color sensor with triple functionality: color sensor/light sensor/color lamp



\*Educational & Robotic Kits — Enter Web Code ERK

| Part No. | Mfr. Part No. | No. of Pieces | Price    |
|----------|---------------|---------------|----------|
| 2082644  | 8547          | 619           | \$279.95 |

| Part No. | Mfr. P/N | Description | No. of Pieces | Exp. Level | Dimensions (L" x W" x H") | Wt. (lbs.) | Pricing |   |
|----------|----------|-------------|---------------|------------|---------------------------|------------|---------|---|
|          |          |             |               |            |                           |            | 1       | 5 |

### Robotic and Computer Control Kits

|        |          |   |     |     |                  |     |         |         |
|--------|----------|---|-----|-----|------------------|-----|---------|---------|
| 242923 | 21-601   | Mechanical Wooden Tyrannosaurus kit   | —   | BEG | 1.5 x 3.0 x 6.5  | 0.9 | \$14.95 | \$13.45 |
| 242915 | 21-602   | Mechanical Wooden Stegosaurus kit   | —   | BEG | 1.5 x 3.0 x 7.0  | 0.9 | 9.95    | 8.95    |
| 357341 | 3-882    | Sound-Activated Jungle Robot kit  | 87  | BEG | —                | —   | 24.95   | 23.95   |
| 358379 | 71107    | Six-Legged Soccer Insect Kit with two-channel wired remote control  | 40  | BEG | —                | 1.1 | 34.95   | 31.95   |
| 192567 | 7769     | Rockit Robot with sound-controlled navigation   | 73  | BEG | 4.5 x 5.1 x 3.3  | 1.0 | 27.95   | 26.49   |
| 358192 | 70068    | Wall Hugging Mouse Robot kit  | —   | —   | —                | —   | 19.95   | 17.95   |
| 358272 | 70162    | Design a robot w/ this RC Robot Construction set! Lift, scoop and drop all kinds of stuff.                | 144 | BEG | —                | 1.0 | 52.95   | 47.95   |
| 200328 | MK127    | Light-Following Running Micro Bug kit   | 26  | INT | 4.0 x 2.4        | 0.2 | 18.95   | 16.95   |
| 200336 | MK129    | Light-Seeking Crawling Micro Bug kit  | 29  | INT | 4.0 x 2.4        | 0.2 | 19.95   | 17.95   |
| 239476 | K2633    | Relay Card kit (req. pwr supply P/N 133891 pg 124)  | 29  | INT | 3.0 x 2.7        | 0.4 | 19.95   | 17.95   |
| 357325 | OWI-9727 | Build this Spider 3 Walker Robot and watch it intelligently avoid any obstacle it faces.                  | 110 | INT | 5.5 x 3.9 x 4.3  | 1.3 | 59.95   | 53.95   |
| 402077 | OWI-9875 | Binary Disk Player Robot  | 75  | INT | —                | 1.9 | 29.95   | 26.95   |
| 386708 | 21-880   | Line Tracking Robot Mouse (solder required)   | —   | INT | 3 x 3 x 3        | 0.9 | 22.95   | 20.95   |
| 358352 | 75020    | Line Tracing Snail Robot kit  | —   | INT | —                | 2.0 | 29.95   | 27.95   |
| 401533 | 71110    | Boxing Robot kit (single), 2-channel  | 84  | INT | —                | 0.4 | 35.95   | 32.35   |
| 401541 | 71113    | Box with your friends with this kit of Boxing Robots Remote controlled, they're fun for everyone.         | 170 | INT | —                | 0.8 | 59.95   | 53.95   |
| 358045 | CYBUG    | The CYBUG Scarab kit uses touch and light sensors to find or avoid light. Requires soldering.             | 83  | EXP | 4.5 x 4          | 0.4 | 49.95   | 47.95   |
| 386610 | 21-886   | Terrain Escape Robot kit with infrared emitting diode and receiver module                                 | —   | EXP | 5 x 5 x 5        | 0.9 | 19.95   | 17.95   |
| 140821 | 972K     | Build the Spider 3 Walker Robot & watch it intelligently avoid any obstacle it faces. Requires soldering. | 158 | EXP | 12.0 x 7.0 x 3.5 | 1.2 | 59.95   | 56.95   |
| 357270 | 27400    | Mini SumoBot Programmable kit with surface mount BASIC Stamp 2 Microcontroller                            | 64  | EXP | 7.9 x 7.9        | 1.5 | 199.95  | 179.95  |
| 404478 | MR-1017  | The PICO is a build-it-yourself programmable robot. Program it to do anything. The sky's the limit!       | 42  | EXP | 5.8 x 6.0 x 4.4  | 3.2 | 109.95  | 99.95   |
| 199603 | 769K     | Rockit Robot advanced w/ sound-controlled navigation  | 96  | EXP | 4.5 x 5.5 x 3.3  | 1.0 | 29.95   | 27.95   |
| 120678 | K6501    | Remote control by Phone kit   | 116 | EXP | 4.1 x 5.1        | 0.7 | 59.95   | 54.95   |
| 157366 | 007      | Unassembled Robotic Arm Trainer kit, Five axis motion and five switch wired controller                    | 106 | EXP | 14.2 x 20.1      | 4.5 | 74.95   | 69.95   |
| 159345 | 007/IBM  | Robotic Arm Interface kit for P/N 157366, above   | 5   | EXP | 3 x 2 x 1        | 1.0 | 69.95   | 64.95   |

### Audio Transmitters, Amplifier, Sound Generator and Detection Kits

|         |          |  |    |     |                 |     |         |        |
|---------|----------|--|----|-----|-----------------|-----|---------|--------|
| 151204  | AA-1     | Super Snooper Big Ear Audio Amplifier kit  | 17 | INT | 1.8 x 1.0 x 0.6 | —   | \$10.95 | \$9.95 |
| 151239  | FMST-100 | FM Stereo Transmitter Mini kit   | 37 | INT | 2.7 x 2.0       | —   | 31.95   | 28.95  |
| 117604  | K1771    | FM Transmitter kit (req. mic. & 9-14VDC pwr supply)  | 26 | INT | 1.8 x 2.8       | —   | 19.95   | 17.95  |
| 211772  | MK118    | FM Radio kit   | 65 | INT | 4.8 x 3.3       | —   | 27.95   | 24.95  |
| 127562  | K4401    | Sound Generator kit with 10 unique sounds  | 61 | INT | 2.8 x 2.8       | —   | 34.95   | 31.95  |
| 117612  | K1803    | Univ. Mono Pre-Amp kit (req. 10-30VDC pwr supply)  | 17 | INT | 1.2 x 1.8       | —   | 9.95    | 8.95   |
| 127255  | K4001    | 7-Watt Amplifier kit, Requires 15VDC @ 500mA Power Supply, Music Output Power: 7-Watts, 4Ω   | 22 | INT | 2.2 x 1.4       | —   | 17.95   | 15.95  |
| 129138  | K4003    | 30W Stereo Pwr Amp. (req. 2x 12VDC @ 2A pwr supplies)  | 38 | INT | 2.8 x 2.0       | —   | 33.95   | 30.95  |
| 147571  | MK103    | Voice Activated kit, Requires 8-15VDC Power Supply or 9V battery, Sound Activates 4 Flashing LEDs  | 33 | INT | 2.5 x 1.6 x 1.4 | 0.1 | 8.95    | 7.95   |
| 662670  | EBST-11  | Audio Stereo Amplifier Kit   | 32 | INT | 2.8 x 2.3       | —   | 9.95    | 8.95   |
| 2120823 | K8095    | MP3 Player Kit, create your own jukebox, sound effects, mp3 and more! SD card operation, Hi-quality VLSI decoder, vol. control up to 32GB, up to 1024 folders with 16,348 songs each | —  | EXP | 5.11 x 3.9      | —   | 89.95   | 84.95  |
| 2120815 | K8098    | Audio Analyzer, display EMS/peak power, mean/peakdB, audio spectrum  | —  | EXP | 5" x 2.5" LCD   | —   | 74.95   | 69.95  |

Blue Part No. = Limited Quantity Available

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 197.



## Electronic Kits (Continued)

\*Web Code: ERK

| Part No.                  | Mfr. P/N   | Description  | No. of Pieces | Exp. Level | Dimensions (L" x W" x H") | Wt. (lbs.) | Pricing |        |
|---------------------------|------------|--|---------------|------------|---------------------------|------------|---------|--------|
|                           |            |  |               |            |                           |            | 1       | 5      |
| Test and Measurement Kits |            |  |               |            |                           |            |         |        |
| 662725                    | EBLOG-300A | Logic Probe kit  | 13            | BEG        | 4.0"L x 0.75"Dia.         | —          | \$10.95 | \$9.95 |
| 20685                     | JE2206     | Function Generator kit   | 21            | INT        | 4.1 x 1.5                 | 0.1        | 27.95   | 24.95  |
| 129091                    | K7102      | Metal Detector kit, sensitive within 8cm (req. 9V battery)                         | 22            | INT        | 2.1 x 2.1                 | 0.4        | 17.95   | 15.95  |
| 2109173                   | 28014      | USB oscilloscope, 2-ch digital, 3 probes, 20V max. 200kHz                          | —             | —          | 5 x 2.25 x 5.0            | —          | 139.95  | 132.95 |
| 2119662                   | SL004      | Electronics Discovery kit, 16+ projects work with LEDs, switches, buttons, sensors | 130           | BEG        | 10 x 6.7 x 3              | 1          | 49.95   | 47.45  |

## Power Supply and Motor Kits

Blue Part No. = Limited Quantity Available

|         |          |  |    |     |                 |     |        |        |
|---------|----------|--|----|-----|-----------------|-----|--------|--------|
| 181833  | VM-1     | DC Voltage Monitor kit with 7 LED display              | 46 | BEG | 2.7 x 1.3       | 0.2 | \$9.95 | \$8.95 |
| 117621  | K1823    | 1.5A @ 1.5-35VDC Power Supply kit                      | 12 | INT | 2.1 x 2.1       | 0.3 | 14.95  | 13.45  |
| 20626   | JE215    | Dual Adjust Regulated Power Supply kit                 | 48 | INT | 5.1 x 3.5 x 2.0 | 2.1 | 24.95  | 22.49  |
| 127829  | GMC-1102 | Motor Speed Control kit: powers up to 5A @ 100VDC      | 35 | INT | 3.6 x 2.3 x 1.2 | —   | 23.95  | 21.55  |
| 239521  | K8012    | Lead Acid Battery Charger kit                          | 62 | INT | 3.8 x 5.5 x 1.6 | —   | 49.95  | 44.95  |
| 160047  | 3-301    | Mini-Dual H-Bridge Motor Driver kit                    | 31 | INT | 1.13 x 1.0      | 0.1 | 24.95  | 22.49  |
| 120539  | K8004    | DC Pulse Width kit, Proportional DC Voltages to Pulses | 40 | EXP | 3.3 x 1.9 x 1.8 | 0.5 | 24.95  | 22.45  |
| 357851  | 3-773    | Maxi-Dual H-Bridge Motor Driver kit                    | 54 | EXP | —               | 0.2 | 59.95  | 53.95  |
| 358248  | 70097    | Twin Motor Gearbox kit                                 | 61 | EXP | —               | 0.3 | 14.95  | 13.45  |
| 2119751 | C-8051   | Adjustable Gear Motor kit, 4k-14k rpm                  | 22 | BEG | 4.3 x 4.9       | —   | 11.95  | 11.49  |

## Distance and Light Kits

|         |          |   |     |     |                 |     |         |         |
|---------|----------|---|-----|-----|-----------------|-----|---------|---------|
| 157964  | LED1007  | Infrared Illuminator kit  | 41  | BEG | 2" Dia.         | 0.1 | \$15.95 | \$14.49 |
| 236081  | MK145    | Flashing Pumpkin kit  | 71  | BEG | 3.2 x 4.0 x 1.3 | —   | 11.95   | 10.95   |
| 147635  | MK100    | Flashing Christmas Tree kit   | 30  | BEG | 4.0 x 2.4 x 1.0 | —   | 6.95    | 6.25    |
| 211781  | MK130    | 3D Flashing Christmas Tree kit  | 36  | INT | 3.1 x 3.5 x 4.0 | —   | 9.95    | 8.95    |
| 236072  | MK117    | Deluxe Christmas Tree kit   | 208 | INT | 3.2 x 5.6       | —   | 19.95   | 18.95   |
| 200310  | MK124    | Scrolling Message kit   | 76  | INT | 3.5 x 2.6 x 1.8 | 0.2 | 22.95   | 20.95   |
| 147555  | MK101    | Flashing LED Sweetheart kit, Requires 9V battery, 25 T1 (3mm) Red LEDs                        | 46  | INT | 1.3 x 2.3 x 1.3 | 0.1 | 9.95    | 8.95    |
| 147580  | MK102    | Flashing LED kit, Requires 9V battery, 2 T1 3/4 Red LEDs                                      | 23  | INT | 1.3 x 1.4 x 0.6 | 0.1 | 7.95    | 6.95    |
| 282861  | 28015    | Ping Ultrasonic Range/Distance Finder, Measures distance between moving or standstill objects | —   | INT | 0.9 x 1.8 x 0.6 | 0.2 | 29.95   | 27.95   |
| 151482  | OEM-ANN1 | Use this Distance Sensor Module to ultrasonically sense distance or size with your computer   | —   | INT | 2.8 x 1.8 x 0.9 | —   | 163.95  | 155.95  |
| 147643  | K4304    | 10-LED Mono VU Meter kit  | 36  | INT | 2.7 x 1.4       | —   | 24.95   | 22.45   |
| 129120  | K3502    | Parking Radar kit   | 55  | INT | 4.9 x 1.9       | —   | 45.95   | 40.95   |
| 211764  | MK116    | Santa Sleigh and Reindeer kit   | 201 | EXP | 5.7 x 3.2       | —   | 19.95   | 17.95   |
| 2119671 | PAPERV1  | Papertronics Vol. 1, makes 3 paper lunar modules that light up with LEDs                      | 13  | BEG | 11 x 9 x 0.5    | —   | 14.95   | 14.49   |
| 177092  | IR-2     | Infrared Transmitter & Receiver kit (req. 9V battery)   | 26  | INT | 1.0 x 0.8       | —   | 24.95   | 22.45   |

## Solar Kits – No Batteries Required

|         |        |  |    |     |                  |     |         |         |
|---------|--------|--|----|-----|------------------|-----|---------|---------|
| 2097521 | MSK610 | 6-in-1 Educational Solar kit, create a solar car, airboat, windmill & more, no tools or battery required | 33 | BEG | 4.75 x 2.4 x 3.4 | 0.5 | \$19.95 | \$17.95 |
| 2111986 | MSK614 | T3 Transforming Solar Robot, create a solar tank, scorpion or robot, no batteries required               | 71 | BEG | 9.8"Dia. x 3.6"H | 0.5 | 19.95   | 17.95   |
| 2112090 | MSK679 | The Solar System Solar kit, build, paint and watch the solar system come to life using solar energy      | 70 | BEG | 4.4 x 3.7 x 3.2  | 0.5 | 19.95   | 17.95   |

## Miscellaneous

|         |            |  |     |     |                 |     |        |        |
|---------|------------|--|-----|-----|-----------------|-----|--------|--------|
| 358299  | 70100      | Tank and Track Wheel set   | 40  | BEG | —               | —   | \$9.95 | \$8.95 |
| 2114520 | 70108      | Tracked Vehicle Chassis kit  | 57  | INT | 2.8 x 2.4 x 1.0 | —   | 19.95  | 18.95  |
| 2114546 | 70168      | Double Gearbox, 4-speed, independent left/right  | 116 | EXP | —               | —   | 12.95  | 11.95  |
| 358213  | 72001      | Planetary Gearbox kit  | —   | INT | —               | —   | 19.95  | 17.95  |
| 2114538 | 72004      | Worm Gearbox, Hi-eff kit   | 58  | INT | 3.0 x 3.2 x 1.2 | —   | 14.95  | 13.49  |
| 2114511 | 72102      | Gearhead motor with 130 pin spike tire kit (2-unit)  | 57  | INT | —               | —   | 159.95 | 143.95 |
| 358336  | 70144      | Ball Caster set  | 60  | INT | —               | 0.6 | 5.95   | 5.49   |
| 127554  | K6400      | Code Lock kit  | 67  | INT | 1.7"L x 1.8"W   | 0.5 | 29.95  | 25.95  |
| 645263  | VM110      | Control your electronics from your computer w/ this USB Interface, 7 inputs and 10 outputs | 1   | EXP | 5.7 x 3.0 x 0.8 | —   | 89.95  | 79.95  |
| 2119734 | C-9701     | 20 second voice recorder   | —   | BEG | —               | —   | 14.95  | 13.49  |
| 357683  | 3-203      | Frankenserial Interface kit  | 25  | —   | —               | —   | 39.95  | 35.95  |
| 358432  | TELCMD-USB | Telecommander Software   | —   | —   | —               | 0.2 | 19.95  | 17.95  |
| 404419  | 165441     | Serve tea with this mechanical wind-up Tea Serving Robot                                   | 1   | BEG | 10.0"H x 4.0"W  | 2.1 | 79.95  | 69.95  |

### Function Generator Kit



20685

### Power Supply Kit



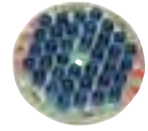
20626

### Motor Gearbox



358248

### IR Red Illuminator



157964

### Flashing LED Kit



147580

### Range Finder



282861

### LED Sweetheart Kit



147555

### Distance Sensor



151482

### DC Pulse Width Kit



120539

### Scrolling Message Kit



200310

### USB Interface



645263

### 6-in-1 Solar Kit



2097521

### Solar System



2112090

### Double Gearbox



2114546

### Gearhead Motor



2114511

### Voice Recorder



2119734

\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above



## Technic Motorized Hauler

Motorized LEGO™ Power Functions including tipping trailer bed, working articulated steering, independent rear suspension and an opening engine cover. It can go anywhere and haul anything, no matter the obstacle or challenge.

- Rebuilds into a flatbed
- 16" (40cm) long
- Difficulty level: intermediate
- Features tipping trailer bed and independent rear suspension
- Ages: 9-16

**Includes:** Power functions motor and battery box

**Requires:** 6 AA batteries (not included, recommend P/N 198707, pg 149)

| Part No. | Mfr. Part No. | No. of Pieces | Price   |
|----------|---------------|---------------|---------|
| 2117392  | 8264          | 575           | \$69.95 |



**NEW**  
MARKED IN PINK



## Robotic Arm Edge Kit

Create and take command of the Robotic Arm Edge, the new, incredibly flexible robotic arm you can build yourself. Find gadgets all around the base with its new search light and the enormous reach of the arm!

- Five switch wired controller
- Lifts 100 grams (3.5 ozs.)
- Horizontal reach of 12.6 inches
- Difficulty level: intermediate
- Base rotation of 270°
- No soldering required
- Extensive elbow range of 300°
- 187-piece kit

**Requires:** 4 D batteries (not included, recommend P/N 215845, pg 149)

| Part No. | Mfr. Part No. | 1       | 5       |
|----------|---------------|---------|---------|
| 2095023  | OWI-535       | \$49.95 | \$44.95 |



## MONDO•TRONICS

## Shape Memory Alloy Kits, Book and Accessories

A long time developer of Shape Memory Alloy products including the popular Muscle Wire® products and kits. What are Shape Memory Alloys? These unique metals are made from a combination of two or more elements that exhibit hardness and elasticity properties that change radically at distinct temperatures. After alloying and basic processing, SMAs can be formed into a shape (for example a coil spring) and then set to that shape by a high heat treatment. When cooled, they may be bent, stretched or deformed (within limits) and then with subsequent moderate heating (well below the heat setting temperature), they can recover some or all of the deformation – they move when heated! Shape Memory Alloys have found use in everything from space missions to floral arrangement, to arterial stents for restoring blood flow to clogged arteries, to actuators for miniature robots, to cell phone antennas, orthodontic braces and even eyeglasses.

### Kits

| Part No. | Product No. | Description   | 1       | 5       |
|----------|-------------|---|---------|---------|
| 141313   | 3-001       | Space Wings kit   | \$19.95 | \$17.95 |
| 357827   | 3-619       | Solar Space Wings kit   | 23.95   | 21.95   |
| 357528   | 3-102       | Muscle Wire R & D kit (5 meters each of 0.050µm, 100µm LT wire; 1 meter each of 250µm Flexinol LT wire) | 225.95  | 199.95  |
| 357641   | 3-136       | Muscle Wire Super Sampler kit (20cm each of 037µm, 050µm, 100µm, 150µm, 250µm)                          | 35.95   | 32.35   |
| 357659   | 3-141       | Project Book Sample kit (20cm of 50µm flexinol wire; 40cm of 100µm and 150µm LT wire)                   | 34.95   | 31.45   |
| 358580   | 3-337       | Modulated Infrared Reflective Detector kit (0.9"L x 0.8"W x 0.4"H)                                      | 19.95   | 17.95   |

### Book

|        |       |                                       |         |         |
|--------|-------|---------------------------------------|---------|---------|
| 141330 | 3-133 | Muscle Wire Project Book, 3rd Edition | \$19.95 | \$17.95 |
|--------|-------|---------------------------------------|---------|---------|

### Wires and Springs

|        |       |   |         |         |
|--------|-------|---|---------|---------|
| 357798 | 3-401 | Nitinol SMA wire (1 meter L x 500µm Dia.)         | \$16.95 | \$15.25 |
| 357801 | 3-402 | Nitinol SMA wire (1 meter L x 100µm Dia.)         | 29.95   | 26.95   |
| 357835 | 3-462 | Nitinol tension springs (4pk.) 6mm OD x 750µm     | 45.95   | 41.35   |
| 357843 | 3-657 | Nitinol compression springs (4pk.) 8mm OD x 950µm | 45.95   | 41.35   |



141313



357528



357641



358580



357798



357835



357843

## MONDO•TRONICS

## Flexinol Muscle Wires®

These unique nickel-titanium alloy Muscle Wires® actually shorten in length when electrically powered, and can lift thousands of times their own weight.

**How it works...** Pressing the switch lets power flow from the batteries through the Muscle Wire®, heating it and causing it to contract, raise the lever and lift the weight. When power is removed, the Muscle Wire® cools and relaxes, and the weight helps it return to its starting position.

**Includes:** Instructions



★ Web Code: WAU

| Part No. | Mfr. P/N | Length (meter) | Wire Dia. (microns) | Linear Resistance (Ω/m) | Typical Current (mA) | Deform Weight* (grams) | Recovery Weight* (grams) | Typical Rate** | Pricing |         |
|----------|----------|----------------|---------------------|-------------------------|----------------------|------------------------|--------------------------|----------------|---------|---------|
|          |          |                |                     |                         |                      |                        |                          |                | 1       | 5       |
| 357561   | 025HT    | 5              | 25                  | 1770                    | 20                   | 2                      | 7                        | —              | \$59.95 | \$53.95 |
| 357456   | 025LT    | 1              | 25                  | 1770                    | 20                   | 2                      | 7                        | —              | 22.95   | 19.95   |
| 357931   | 075LT    | 1              | 75                  | 200                     | 100                  | 815                    | 80                       | 40             | 17.95   | 15.95   |
| 357595   | 100HT    | 1              | 100                 | 150                     | 180                  | 28                     | 150                      | 43             | 17.95   | 15.95   |
| 141321   | 100LT    | 1              | 100                 | 150                     | 180                  | 28                     | 150                      | 33             | 17.95   | 15.95   |
| 357472   | 100LT    | 5              | 100                 | 150                     | 180                  | 28                     | 150                      | 33             | 66.95   | 59.95   |
| 141874   | 150LT    | 1              | 150                 | 50                      | 400                  | 62                     | 330                      | 20             | 17.95   | 15.95   |
| 160055   | 375LT    | 1              | 375                 | 8                       | 2750                 | 393                    | 2000                     | 4              | 22.95   | 20.95   |
| 357712   | 375HT    | 1              | 375                 | 8                       | 2750                 | 393                    | 2000                     | 5              | 22.95   | 20.95   |

\* Multiply by 0.0098 to get force in Newtons \*\* Cycles per minute, in still air, at 20° Centigrade



## Vector 2X Compass Module

- Pin selectable BCD or binary output format (compatible with Motorola SPI and National Microwire)
- 2° accuracy, 1° resolution
- 3-wire serial output format
- Raw uncalibrated magnetometer output optional
- Hard iron calibration
- Master or slave capability for data clock generation
- 5Hz sampling rate



| Part No. | Description    | 1       | 5       |
|----------|----------------|---------|---------|
| 126703   | Compass module | \$39.95 | \$34.95 |

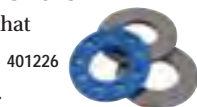
**For more Sensors & Modules, see pg 194**

*Our goal is to provide you with more of what you want. Let us know how we can better serve your electronic needs. Send feedback to [Management@Jameco.com](mailto:Management@Jameco.com).*



## Thrust Washers

Use to reduce the friction that occurs in metal-to-metal contact, particularly where wheels join to axles.



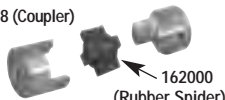
| Part No. | I.D.  | O.D.  | # of Balls | Load Rating @ 15 RPM | 1      | 5      |
|----------|-------|-------|------------|----------------------|--------|--------|
| 401197   | 1/8"  | .434" | 6          | 89 lbs.              | \$2.95 | \$2.49 |
| 401200   | 3/16" | .497" | 7          | 104 lbs.             | 2.95   | 2.49   |
| 401226   | 5/16" | .622" | 9          | 134 lbs.             | 3.49   | 2.95   |
| 401234   | 3/8"  | .809" | 6          | 149 lbs.             | 3.95   | 3.49   |
| 401242   | 1/2"  | .934" | 8          | 198 lbs.             | 3.95   | 3.49   |

\*Lasers — Enter Web Code LAZ

## Spider Couplers

\*Web Code: EBE

- Used with motors 162288 (Coupler)
- 1 set screw per hub
- Hub OD: 0.625" Dia.
- Hub length: 0.56"
- Parts sold individually



| Part No. | Description            | 1      | 5      | 25     |
|----------|------------------------|--------|--------|--------|
| 162288   | .125" (3.18 mm) ID hub | \$1.49 | \$1.35 | \$1.19 |
| 161998   | .197" (5.00 mm) ID hub | 1.19   | 1.05   | .95    |
| 162270   | .250" (6.35 mm) ID hub | 1.49   | 1.35   | 1.19   |
| 162000   | Rubber spider          | 1.55   | 1.39   | 1.25   |

## Roll-Flex Omni Wheel

- Multi-directional roller
- Supports up to 45 lbs.
- Open design eliminates lock-up
- Safe for all surfaces
- Compatible with Stingray Robot (P/N 2099673)
- 2120532: Aluminum axle for omni-wheel
- Tapped for two #4-40 1/4" screws

2120524



NEW  
MARKED IN PINK

| Part No. | Mfr. Part No.                 | 1       | 5       |
|----------|-------------------------------|---------|---------|
| 2120524  | Omni directional roller wheel | \$24.95 | \$23.95 |
| 2120532  | 2" threaded aluminum axle     | .89     | .79     |

## 10-Piece Gear Assortment

- Polyethylene resin
- Gears are 0.147" bore size
- Bushings are 0.07" bore diameter
- T10, T20, T30, T40, T50 and bushing



| Part No. | Description          | 1      | 5      | 25     |
|----------|----------------------|--------|--------|--------|
| 1810072  | Gear set - 10 pieces | \$7.95 | \$6.95 | \$6.25 |

\*Gears — Enter Web Code PEF

## Hub and 48-Pitch Gear Set

- Low coefficient of friction requires little or no lubrication
- Residual stress removed by annealing process

168284 Includes:

1 each of the following: 10 teeth with 1/32" bore size; 14 and 16 teeth with 1/8" bore, 20, 24, 30, 36, 44, 54, 66, 84 and 100 teeth with 1/4" bore size

| Part No. | Description                                     | 1      | 5      | 25     |
|----------|---|--------|--------|--------|
| 157104   | 1/4" bore aluminum mounting hub with set screws | \$7.95 | \$6.95 | \$6.25 |
| 168284   | Gear set - 12 pieces (see description above)    | 39.95  | 34.95  | 31.95  |

## 16-Pitch Sprocket Set and Chain

- Operates in high humidity and corrosive environments
- Chain links can easily be added or removed to adjust total length
- Chain tension load: 2.0 lbs.



| Part No. | Description                                      | 1       | 5      | 25     |
|----------|--|---------|--------|--------|
| 157075   | Drive chain (12" long)                           | \$10.95 | \$9.95 | \$8.95 |
| 168276   | Sprocket set - 14 pieces (see description above) | 29.95   | 26.95  | 23.95  |



## Green Laser Pointer

Class IIIa Laser Product

Uses a wavelength closely matched to the highest sensitivity of the human eye and built w/ cutting-edge crystal technology. Projects a green beam so powerful you can see it against a clear night sky.

- Output wavelength: 532nm
- Output power: <5mW
- 90-day manufacturer's warranty

Includes: Metal gift box, clip and 2 AAA batteries

| Part No. | Mfr. Part No. | Size (L" x Dia") | 1       | 5       |
|----------|---------------|------------------|---------|---------|
| 223731   | 5608          | 5.6 x 0.5        | \$99.95 | \$89.95 |



## Red Laser Pointer Pen

Includes: 2 AAA batteries

- Range up to 500 yards
- 670nm output wave length
- Plastic gift box



Class IIIa Laser Product

| Part No. | Mfr. Part No. | Size (L" x Dia") | 1       | 5       |
|----------|---------------|------------------|---------|---------|
| 153605   | 4012          | 5.2 x 0.4        | \$21.95 | \$19.75 |

## Laser Diode Module

- Operates on 3VDC @ <5mW
- 650nm wavelength
- Beam diameter: 5 x 8mm
- Working distance: over 50 meters (daylight), 200 meters (dark)
- Size: 0.9"L x 0.3"Dia
- One-year warranty



Class IIIa Laser Product

| Part No. | Description         | 1       | 5       |
|----------|---------------------|---------|---------|
| 310519   | Laser module, brass | \$44.95 | \$39.95 |

## Laser Diode

- Optical output power: 5mW maximum
- Operating current: 30mA
- 5.6mm packaging size
- Operating voltage: 2.6V maximum
- Lasting wavelength: 650nm typical
- Beam divergence of 11° from center line max.



Class IIIa Laser Product

| Part No. | Product No. | 1       | 5       | 25      |
|----------|-------------|---------|---------|---------|
| 182932   | ULD-6556    | \$14.95 | \$13.45 | \$12.09 |

## Climax Spider Shaft Coupler

- 2 set screws (10-32 x 1/8")
- Size: 0.75"L x 0.5"OD



\*Web Code: EBE

| Part No. | Description             | 1      | 5      | 25     |
|----------|-------------------------|--------|--------|--------|
| 138288   | .250" ID sleeve coupler | \$5.95 | \$5.35 | \$4.79 |

## 650nm Line and Dot Laser Diodes

143845/173243:

- Focus adjustable with locking set screw
- Wattage: 5mW
- Oper. volt.: 3-5V
- Size: 3.3"L x 0.9"Dia.
- One-year warranty

\*Web Code: LAZ



173243

143845: Line laser module

- Laser line width: 1mm
- Laser fan angle: 60°

Class IIIa Laser Product

173243: Cross hair laser diode module

- Laser fan angle: 60°
- Size: 3.0"L x 0.9"D
- Female 2.1mm power connector

143837: Module regulated power supply

- Output: 5VDC @ 100mA
- Short-circuit protection
- Input voltage: 95-125VAC or 190-250VAC switchable
- Size: 2.0"W x 1.7"D x 9.2"H
- Weight: 0.6 lbs.



143853

143853: Laser module mount

- X-Y tilt, θ movement
- Built to hold laser diode on target
- Tightening screw for tilt adjustment

| Part No. | Description                | 1        | 5        |
|----------|----------------------------|----------|----------|
| 143845   | Line laser diode module    | \$114.95 | \$103.95 |
| 173243   | Cross hair laser diode mod | 109.95   | 99.95    |
| 143837   | Regulated power supply     | 20.95    | 18.95    |
| 143853   | Laser diode module mount   | 59.95    | 53.95    |

## 5-Speed Variable Fan Control with LCD Display and Power Supply

JAMECO  
ReliaPro

- Kit includes: 12VDC fan (P/N 2099972), 12VDC @ 5.25A open frame power supply (P/N 2099981), membrane switch, power cable assembly, LCD display module and mounting brackets



LCD Graphic Display Module:

- On-board MC68HC90LJ12 Microcontroller
- Input voltage: 12VDC
- On/Off switch, fan speed control switch (1-5 speed), LED power indicator
- Graphic LCD digit height: 0.58"
- Optional second fan connector
- LCD module size: 4.8"W x 1.9"H

Fan:

- Input voltage: 12VDC @ 750mA (9W); CFM: 151.85; 55dBA; 120mm x 120mm x 38mm; 4-lead wires (tachometer and speed) 47.24"L

Open Frame Power Supply (SBU60-105):

- Input voltage: 90-264VAC @ 47-63Hz (5pos. 0.157" pitch connector)
- Output voltage: 12VDC @ 5.25A, 63W (6pos. 0.157" pitch connector)
- Size: 5.0"L x 3.0"W x 1.09"H

| Part No. | Description | 1       | 10      |
|----------|-------------|---------|---------|
| 2100144  | Fan kit     | \$39.95 | \$35.95 |

Can't find the product you're looking for?  
Call us at 1-800-831-4242.

\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above



# Parallax Propeller Boards, Sensors, Modules & Kits

3 LEVELS OF SAVINGS  
NAME BRANDS HOUSE BRANDS FACTORY OVERRUN

**PARALLAX** Parallax's mission is to provide the electronics industry with products that are technically innovative, unique and economical. Parallax designs and manufactures microcontroller development tools and small single-board computers. Parallax Inc. current product line consists of BASIC Stamp microcontrollers and development software, SX chips and programmers/debuggers, Propeller chips and tools, project boards, robotics kits, educational tools and sensors.

For Additional BASIC Stamp Modules, See Page 12

\*Web Code: PAR



## Sensors, Modules, & Accessories

For more sensors, see pg 102-104

| Part No. | Mfr. Part No. | Description   | 1      | 5      |
|----------|---------------|---|--------|--------|
| 2082855  | 27800         | Modular 2-axis joystick, dual 10k pot with common ground, 1.64"x1.2"x1.1"   | \$9.95 | \$8.95 |
| 2082901  | 27920         | HS1101 Humidity Sensor, 5VDC to 10VDC, 0.25"x0.40" Dia., -40°F to 212°F   | 6.95   | 6.25   |
| 2082919  | 27922         | Gyroscope Module, ±3000/s full scale, 3.4VDC to 6.5VDC @ 5.25mA   | 49.95  | 44.95  |
| 2110035  | 27925         | µOLED display module, 1.5" diagonal, 128x128 pixel resolution   | 99.95  | 94.95  |
| 2082880  | 27930         | CH4 gas sensor, 5VDC@165mA (sense mode) TTL compatible input and output   | 34.95  | 32.95  |
| 2082863  | 27931         | CO gas sensor, 5VDC @ 165mA TTL compatible input and output   | 34.95  | 32.95  |
| 2082871  | 27932         | LPG gas sensor, 5VDC @ 175mA (sense mode) TTL compatible input and output   | 34.95  | 32.95  |
| 2109384  | 27982         | 433MHz RF Transceiver module, 1200-9600bps transfer rate, 250 ft. line of sight range   | 39.95  | 37.95  |
| 2109499  | 28026         | H48C 3-axis accelerometer, serial SPI, 5VDC, ±3g, free-fall detection   | 38.95  | 36.95  |
| 2007185  | 28028         | Sensor Sampler kit, includes sensirion temp. and humidity sensor, flexiforce sensor ultrasonic sensor, PIR proximity sensor, Hitachi HM55B compass module | 195.95 | 185.95 |
| 2109739  | 28141         | RFID transponder tag, 54mm x 85mm rectangle   | .95    | .85    |
| 2110887  | 28142         | RFID transponder tag, 125kHz activating frequency, compatible with Jameco P/N 2007169 and 2007177, 50mm round   | .95    | .85    |
| 2109229  | 28146         | GPS receive module, 5VDC, 4800bps TTL, track 12 satellites, 4-pin header  | 89.95  | 85.95  |
| 2109667  | 28526         | 3-axis accelerometer, digital output, SPI or I2C, sensitive select ±2g/±4g/±8g  | 34.95  | 32.95  |
| 653651   | 29123         | HM55B compass module, compatible with most microcontrollers   | 29.95  | 26.95  |
| 2109747  | 29140         | Introduction to sensor kit, includes distance, compass, proximity, multi-axis   | 99.95  | 89.95  |
| 2109149  | 30080         | Say It voice recognition module, 32 user definable commands   | 89.95  | 85.95  |
| 2110060  | 32311         | Propeller accessories kit (PS/2 keyboard and mouse, display) 3.5" NTSC/PAL LCD compatible display, for P/N 2007126  | 149.95 | 142.95 |
| 2082935  | 32313         | SD card adapter, SPI communication  | 19.95  | 17.95  |
| 2007169  | 32390         | RFID Serial Reader and Tag Sampler kit, includes RFID serial card reader, tags  | 49.95  | 46.95  |
| 2007177  | 32395         | RFID USB Reader and Tag Sampler kit, includes RFID USB card reader & tags   | 64.95  | 59.95  |
| 2110633  | 32397         | RFID transponder tag, 25mm disk, 125kHz activating frequency, compatible with Jameco P/N 2007169 and 2007177  | .95    | .85    |
| 2109691  | 350-00014     | Infrared receiver, 38kHz carrier freq. found in Boe-Bot and SumoBot kits  | 4.49   | 4.25   |
| 2109587  | 555-27401     | QTI line sensor, IR emitter/detector, 5VDC, analog/digital output   | 7.95   | 7.49   |
| 2082927  | 555-28027     | PIR Sensor kit, single bit high/low output  | 12.95  | 11.49  |
| 2109413  | 570-28015     | PING Mounting Bracket kit, includes Parallax standard servo   | 29.95  | 26.95  |



## Motor / Servo Controllers

For servo motors, refer to pg 114

|         |       |   |          |          |
|---------|-------|---|----------|----------|
| 2109659 | 27969 | USB BiSTEP Motor Controller, up to 2 unipolar 4-pole stepper motors | \$134.95 | \$129.95 |
| 2099104 | 28830 | Propeller Servo Controller, P8X32A-M44 propeller chip on-board      | 49.95    | 47.95    |
| 2007193 | 29144 | HB-25 Motor Controller, 6VDC min. to 16VDC max motor supply         | 49.95    | 44.95    |

## Kits, Protoboards and Development Boards

|         |       |   |         |         |
|---------|-------|---|---------|---------|
| 2115768 | KARDW | Ardweeny Microcontroller kit, Arduino compatible, atmega328, 7+ pcs.  | \$13.95 | \$13.25 |
| 387971  | 27807 | BASIC Stamp USB discovery kit, includes Board of Education USB, BASIC Stamp 2 module                                    | 169.95  | 159.95  |
| 282829  | 27207 | BS2 Educational Starter kit, includes BASIC Stamp 2 module, serial Board of Education                                   | 165.95  | 149.95  |
| 661116  | 27297 | Stamp Works kit plus, includes Parallax Professional Development Board  | 289.95  | 259.95  |
| 2109368 | 28024 | USB to serial development tool, 5VDC, FTDI chip in-circuit  | 22.49   | 21.49   |
| 1536907 | 28103 | Board of Education full kit, serial version   | 109.95  | 99.95   |
| 282933  | 28132 | Serial BOE-BOT full kit, complete reprogrammable robot kit  | 158.95  | 142.95  |
| 2109165 | 28803 | Board of Education full kit, USB version  | 99.95   | 94.95   |
| 387997  | 28832 | USB BOE-BOT full kit, complete reprogrammable robot kit in USB version  | 159.95  | 143.95  |
| 2113439 | 28975 | Robot Base kit made of plywood, pre-drilled for motors and sensors  | 34.95   | 31.95   |
| 2099673 | 28980 | Stingray Robot kit, multicore propeller chip based control board, 64kB EEPROM on-board 3.3V & 5V switching power supply | 299.95  | 279.95  |



\*For All Parallax Products — Enter Web Code PAR

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 197.

## PARALLAX Kits, Protoboards and Development Boards (Continued)

★ Web Code: PAR

| Part No.       | Mfr. Part No. | Description  | 1       | 5       |
|----------------|---------------|--|---------|---------|
| <b>2109721</b> | 32100         | Propeller Demo Board, USB to serial interface, P8X32A-Q44 chip   | \$83.95 | \$79.95 |
| 2007126        | 32111         | Propeller Professional Development Board with built-in USB   | 169.95  | 152.95  |
| 2007097        | 32300         | Propeller Starter kit, includes Propeller manual, Propeller demo board, Type A to mini B USB cable, 6VDC to 9VDC power requirement | 99.95   | 89.95   |
| 2007100        | 32305         | Propeller Education kit, includes Propeller Fundamental Book, Propeller DIP plus kit   | 124.95  | 114.95  |
| 2007118        | 32812         | Propeller USB proto-board, P8X32A-Q44 Propeller chip. 64kB EEPROM for program and storage, LM1086 5V and 3.3V regulators           | 39.95   | 35.95   |
| <b>2117341</b> | 50512         | Basic breakout board, FTDI 3.3/5V Arduino, USB serial 6-pin  | 19.95   | 18.95   |
| <b>2109202</b> | 90005         | BASIC Stamp activity kit, 40+ projects, 350pp guide, 48 pcs.   | 99.95   | 94.95   |



### Wireless Devices

| Part No.       | Mfr. Part No. | Description   | 1       | 5       |
|----------------|---------------|---|---------|---------|
| <b>2113421</b> | 32400         | Xbee adapter board, USB interface, PCB mount, 0.1" spacing, soldering required                                      | \$27.95 | \$25.95 |
| <b>2113412</b> | 32403         | Xbee adapter board, 0.1" spacing, PCB mount, soldering required   | 3.49    | 3.25    |
| <b>2113375</b> | 32404         | Xbee chip antenna, 1mW, 2.4GHz, 300' line of sight, 802.15.4 network  | 26.95   | 24.95   |
| <b>2113391</b> | 32406         | Xbee chip antenna, 60mW, 2.4GHz, <1 mile range line of sight, 802.15.4  | 46.95   | 43.95   |
| <b>2119961</b> | SE1200A-DIP   | DataBridge, I/O transceiver, 6 digital I/O, 2 analog I/O, UART Tx/Rx, 2.4GHz, 1mW, 0.625 mile, int. ceramic antenna | 86.95   | 79.95   |
| <b>2119970</b> | SE1200D-DIP   | DataBridge, I/O transceiver, 6 digital I/O, 2 analog I/O, UART Tx/Rx, 2.4GHz, 100mW, 2.5 mile, SMA connector        | 99.95   | 94.95   |

## PowerFilm. Flexible Thin Film Solar Modules

★ Web Code: QEM

**Wireless Electronics Series** The Wireless Electronics Series offers a new opportunity to solve the old problem of limited power for wireless electronics in portable and remote applications. This module is lightweight, paper thin and durable.

228013



| Part No. | Mfr. Part No. | Operating Voltage | Operating Current (mA) | Size (L x W x T) |                 | Pricing |        |        |
|----------|---------------|-------------------|------------------------|------------------|-----------------|---------|--------|--------|
|          |               |                   |                        | Inches           | mm              | 1       | 5      | 25     |
| 227985   | SP3-37        | 3.0               | 22                     | 2.5 x 1.5 x .01  | 64 x 37 x 0.2   | \$3.95  | \$3.49 | \$3.15 |
| 227993   | TX3-25        | 3.0               | 25                     | 4.5 x 1.0 x .01  | 114 x 25 x 0.2  | 3.95    | 3.49   | 3.15   |
| 171061   | MP3-37        | 3.0               | 50                     | 4.5 x 1.5 x .01  | 114 x 37 x 0.2  | 5.95    | 5.35   | 4.79   |
| 228013   | MPT3.6-75     | 3.6               | 50                     | 2.9 x 3.0 x .01  | 74 x 75 x 0.2   | 7.95    | 6.95   | 6.45   |
| 228030   | SP4.2-37      | 4.2               | 22                     | 3.3 x 1.5 x .01  | 84 x 37 x 0.2   | 5.95    | 5.35   | 4.79   |
| 228056   | MPT4.8-150    | 4.8               | 100                    | 3.7 x 5.9 x .01  | 94 x 150 x 0.2  | 17.95   | 16.95  | 15.25  |
| 228064   | MPT6-75       | 6.0               | 50                     | 4.5 x 3.0 x .01  | 114 x 75 x 0.2  | 12.95   | 10.95  | 9.95   |
| 228072   | MPT6-150      | 6.0               | 100                    | 4.5 x 5.9 x .01  | 114 x 150 x 0.2 | 19.95   | 17.95  | 15.95  |
| 228099   | MP7.2-150     | 7.2               | 200                    | 10 x 5.9 x .02   | 253 x 150 x 0.6 | 39.95   | 35.95  | 31.95  |
| 228101   | MPT15-75      | 15.4              | 50                     | 10 x 3.0 x .02   | 253 x 75 x 0.6  | 19.95   | 17.95  | 15.95  |
| 228110   | MPT15-150     | 15.4              | 100                    | 10 x 5.9 x .02   | 253 x 150 x 0.6 | 39.95   | 35.95  | 31.95  |

### WeatherPro Series

The right choice for permanent outdoor applications that are directly exposed to the elements. These modules feature rugged construction, a UV-stabilized surface, an extra edge seal for weather protection, and tin-coated copper leads that extend from the module.

228161



| Part No. | Mfr. Part No. | Operating Voltage | Operating Current (mA) | Size (L x W x T)  |                 | Pricing |         |         |
|----------|---------------|-------------------|------------------------|-------------------|-----------------|---------|---------|---------|
|          |               |                   |                        | Inches            | mm              | 1       | 5       | 25      |
| 228161   | PT7.2-75      | 7.2               | 100                    | 10.3 x 3.9 x .04  | 270 x 100 x 1.1 | \$34.95 | \$31.49 | \$28.25 |
| 228179   | PT7.2-150     | 7.2               | 200                    | 10.3 x 6.9 x .04  | 270 x 175 x 1.1 | 49.95   | 44.95   | 39.95   |
| 228195   | PT15-150      | 15.4              | 100                    | 10.3 x 6.9 x .04  | 270 x 175 x 1.1 | 54.95   | 49.45   | 44.49   |
| 228208   | PT15-300      | 15.4              | 200                    | 10.3 x 12.8 x .04 | 270 x 325 x 1.1 | 99.95   | 89.95   | 79.95   |

## PowerFilm.

### Ultra Compact, Ultra Lightweight, Easy-to-Use

PowerFilm develops and manufactures thin, flexible solar panels based on a proprietary low cost, high quality production process. PowerFilm encompasses the consumer part of today's solar markets and are used for recharging consumer electronics, such as laptops, cell phones, GPS, and mp3 players.

**2114474/2114482:** Charge batteries, cell & satellite phone, laptop, etc. Lightweight and portable (foldable)

**2114491/2114503:** Thin film on plastic, truly rollable, and does not suffer from wasted over-voltage (rollable)

**2108621:** Charges 2 AA batteries (folds up compactly to fit into pocket)

**2097133:** Charges 2 AA batteries and most small USB devices (folds up compactly to fit into pocket)

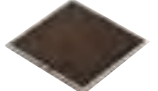
| Part No. | Mfr. Part No.    | Description                  | Operating Voltage @ Current | Charging Voltage | Folded/Unfolded Dimensions (in.) | 1       | 5       | 25      |
|----------|------------------|------------------------------|-----------------------------|------------------|----------------------------------|---------|---------|---------|
| 2108621  | AA Charger       | Solar, foldable charger      | 3.6V @ 0.6A                 | —                | 5.5 x 3.3 x 1.4 / 5.5 x 31.5     | \$89.95 | \$79.95 | \$69.95 |
| 2097133  | UBS + AA Charger | USB + AA charger             | 3.6V @ 0.4A                 | 5.0V             | 3.25 x 5.5 x 1.38 / 24 x 5.5     | 89.95   | 79.95   | 69.95   |
| 2114474  | F15-300N         | Solar, foldable charger, 5W  | 15.4V @ 0.3A                | —                | 10.3 x 3.3 / 24.5 x 10.3         | 99.95   | 89.95   | 79.95   |
| 2114482  | F15-600          | Solar, foldable charger, 10W | 15.4V @ 0.6A                | —                | 10.5 x 3.5 / 23.7 x 21           | 249.95  | 224.95  | 195.95  |
| 2114491  | R15-300          | Solar, rollable charger, 5W  | 15.4V @ 0.3A                | —                | 11.5 x 4 x 3.7 / 11.5 x 21       | 149.95  | 134.95  | 124.95  |
| 2114503  | R15-600          | Solar, rollable charger, 10W | 15.4V @ 0.6A                | —                | 11.5 x 4.25 / 11.5 x 38          | 249.95  | 224.95  | 195.95  |

★ For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

## 60mm Solar Panel

- Clear coat plastic
- Voltage output: 4.7VDC to 5VDC
- Power output: 0.25W max.
- Size: 2.36"L x 2.36"W x 0.1"Thick
- Material: copper indium diselenide

★ Web Code: AEK



| Part No. | Description | 1      | 5      | 25     |
|----------|-------------|--------|--------|--------|
| 1928142  | Solar panel | \$7.95 | \$6.95 | \$6.25 |

## Mini-Panel Solar Cells

**Ready to Use! No Soldering**

Encapsulated mini-panels utilize solar cells similar to those that power our satellites in space, yet they are safe and simple to use. Mini-panels allow for handling without the normal breakage and cell damage associated with fragile solar cells. 6" red/black lead wires attached. Modules may be connected to create different outputs.

★ Web Code: MPS

| Part No. | Cross Ref. | VDC @ mA            | Size (L x W)                 | 1      | 5      |
|----------|------------|---------------------|------------------------------|--------|--------|
| 2113658  | 4-800      | 0.5 @ 800           | 3.5" x 2.5" ...              | \$9.95 | \$8.95 |
| 2113631  | 4-1.5-200  | 1.5 @ 200           | 3.5" x 2.5" ...              | 9.95   | 8.95   |
| 200221   | SOL4       | 2.0 @ 200           | 3.0" x 3.7" ...              | 10.95  | 9.95   |
| 215319   | 4-3.0-100  | 3.0 @ 100           | 3.8" x 2.5" ...              | 11.95  | 10.95  |
| 215327   | 4-6.0-50   | 6.0 @ 50            | 3.8" x 2.5" ...              | 14.95  | 13.49  |
| 2113666  | SC-GRAB    | Solar cell grab bag | (min. 40pcs/bag, sizes vary) | 7.95   | 6.95   |

★ Web Code: FSC



2097133



## Alternative Energy Kits

Horizon Fuel Cell Technologies has become the world's largest volume producer of commercial fuel cell products, serving customers in over 40 countries. The launch of the "H-Racer" toy-scale fuel cell car in 2006 offered a first glimpse of the company's unique technology that won several consumer product design awards, including a Time Magazine "Best Invention" award. Presently, Horizon produces extremely compact, lightweight, and complex hydrogen generation solutions suitable for electronic hobbyists, including renewable energy science experiment sets and battery-free kits.



| Part No. | Mfr. Part No. | Description   | 1        | 5        |
|----------|---------------|---|----------|----------|
| 2095007  | FCJJ-23       | H-Racer 2.0 is the world's smallest hydrogen fuel cell car equipped with remote-control steering and light emitting features with the car ....  | \$119.95 | \$109.95 |
| 2112137  | FCJJ-25       | H2GO Hybrid Electric Hydrogen RC Vehicle runs on energy from the sun and water and combines fuel cells for cruise power.....<br>Not even the remote control needs batteries                                       | 129.95   | 119.95   |
| 2095015  | FCJJ-27       | Alternative Energy kit that combines solar, wind, and fuel cell technologies in a mini-renewable energy system .....  | 199.95   | 189.95   |
| 2112145  | FCJJ-29       | Wind Pitch is a miniature real-working wind turbine (wind power generator) designed to evaluate the pitch (setting angle).....<br>of the profiled blades. Up to 12 profile blades can be installed for evaluation | 89.95    | 82.95    |
| 2112153  | FCJJ-26       | Hydro-Wind Turbine kit invents clean energy applications using fuel cells and renewable hydrogen-harness the energy of the wind .....   | 99.95    | 89.95    |
| 2112188  | FCJJ-22       | Bio-Energy kit uses ethanol as fuel source. This fuel cell kit directly converts ethanol (alcohol) to electricity .....   | 99.95    | 89.95    |
|          |               | silently and without any combustion   |          |          |

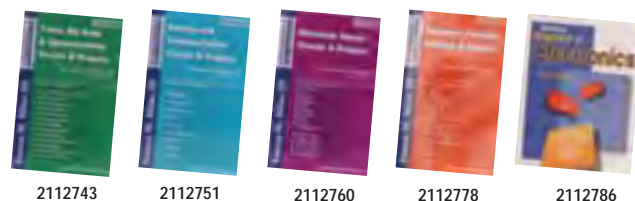
★ Web Code: NRG

## Books

★ Web Code: FOR

### Forrest M. Mims III Books

One of the most widely read electronics authors in the world. Forrest M. Mims, III has written over 60 books and has been honored twice for excellence by the Computer Press Association. "Getting Started in Electronics" has sold more copies than any other book on the subject. It is a complete electronics course in just 128 pages! Mims teaches the basics and takes you on a tour of analog and digital components. He explains how they work and shows how they can be combined for various applications. It also includes assembly tips and 100 electronic circuits and projects to build and test. If you're up for a challenge, see Forrest's Puzzler on page 83 or Forrest's Recipe on page 113.



| Part No. | Description   | Pages | Price   |
|----------|---|-------|---------|
| 2112743  | Forrest M. Mims III Engineer's Guide to Electronics Volume I: Timer, OP Amp, Optoelectronic Circuits & Projects | 124   | \$12.95 |
| 2112751  | Forrest M. Mims III Engineer's Guide to Electronics Volume II: Science & Communication Circuits & Projects      | 140   | 12.95   |
| 2112760  | Forrest M. Mims III Engineer's Guide to Electronics Volume III: Electronic Sensor Circuit & Projects            | 144   | 12.95   |
| 2112778  | Forrest M. Mims III Engineer's Guide to Electronics Volume IV: Electronic Formulas, Symbols & Circuits          | 192   | 12.95   |
| 2112786  | Forrest M. Mims III Getting Started in Electronics, A Complete Electronics Course                               | 128   | 19.95   |

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★ Web Code: BKS



| Part No. | Description  | Pages | Price   |
|----------|--|-------|---------|
| 2112815  | Basic Communication Electronics: Explains analog electronic devices and circuits, how they work and how they are used to build communication systems with an emphasis on semiconductor devices and integrated circuits (ICs) | 224   | \$21.95 |
| 2112807  | Basic Digital Electronics: Explains digital system functions and how digital circuits are used to build them   | 192   | 21.95   |
| 2112794  | Basic Electronics: Explains electronic devices and circuits, how they work and how they are used   | 224   | 21.95   |
| 677951   | Modern Solder Technology, Competitive Electronics Manufacturing  | 622   | 49.95   |
| 357659   | Mondotronic, Muscle Wire Project Book Sample kit   | 128   | 34.95   |
| 141330   | Muscle Wire Project Book, 3rd Edition  | 128   | 19.95   |
| 355231   | Pocket PC Reference Book, 13th Edition. This book covers troubleshooting error codes   | 1088  | 12.95   |
| 305171   | Rechargeable Batteries, Application Handbook   | 290   | 39.95   |
| 88225    | Texas Instruments TTL Databook. Databook that contains Texas Instruments TTL logic   | 2140  | 34.95   |
| 2113447  | Programming & Customizing the Multicore Propeller Microcontroller: Official Guide by Parallax  | 475   | 39.95   |

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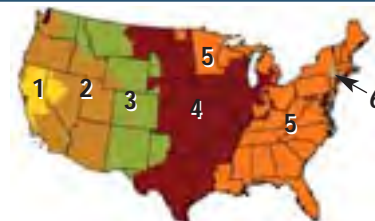
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+ Available in both RoHS and non-RoHS

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Prices are effective 08-16-10. In the unlikely event you find a lower price in a printed competitor catalog or magazine, simply call us with the details at the time of purchase. We'll beat any price by 10% as long as it's above our cost. Prices and discounts are subject to change without notice. Jameco is pleased to occasionally offer promotional discounts to our customers but these are to be applied to products and orders purchased at published prices and may not be combined with any other discounts. We are not responsible for any typographical errors in this catalog. Photos are representative; product appearance may vary.

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1 day 2 3 4 5 6 days

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|                                      |                        |
|--------------------------------------|------------------------|
| <b>A-B</b>                           |                        |
| A/D CONVERTERS .....                 | 14                     |
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## LCD Character and Graphic Displays (Parallel)

★ Web Code: GCG

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### Features Include:

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- Low power backlight, higher brightness per watt
- Positive and negative image options
- Industry standard sized and interfaces
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| Part No. | Mfr. Part No.           | Characters<br>x Lines | Character<br>Font | Input Data     | Input Voltage<br>(V @ mA) | Letters<br>Backlight | Module Size<br>(W" x H" x D") | Display Size<br>(W" x H") | Pricing |        |        |
|----------|-------------------------|-----------------------|-------------------|----------------|---------------------------|----------------------|-------------------------------|---------------------------|---------|--------|--------|
|          |                         |                       |                   |                |                           |                      |                               |                           | 1       | 5      | 25     |
| 2118619  | NHD-021682-FL-YBW       | 16 x 2                | 5 x 8             | 4-bit or 8-bit | 5.0 @ 1.5                 | Blue-Yellow/Green    | 3.3 x 1.7 x 0.5               | 2.5 x 0.6                 | \$9.95  | \$8.95 | \$7.95 |
| 2118580  | NHD-0216K1Z-FL-YBW      | 16 x 2                | 5 x 8             | 4-bit or 8-bit | 5.0 @ 1.5                 | Blue-Yellow/Green    | 3.2 x 1.4 x 0.5               | 2.5 x 0.6                 | 9.95    | 8.95   | 7.95   |
| 2118601  | NHD-0216K1Z-FS(RGB)-FBW | 16 x 2                | 5 x 8             | 4-bit or 8-bit | 5.0 @ 1.5                 | Black-RGB            | 3.2 x 1.4 x 0.5               | 2.5 x 0.6                 | 13.95   | 12.95  | 11.95  |
| 2118598  | NHD-0216K1Z-NSW-BBW-L   | 16 x 2                | 5 x 8             | 4-bit or 8-bit | 5.0 @ 1.5                 | White-Blue           | 3.2 x 1.4 x 0.5               | 2.5 x 0.6                 | 10.95   | 9.95   | 8.95   |
| 2118627  | NHD-0216SZ-NSW-BBW      | 16 x 2                | 5 x 8             | 4-bit or 8-bit | 5.0 @ 1.5                 | White-Blue           | 4.8 x 1.7 x 0.5               | 3.9 x 0.9                 | 21.95   | 20.49  | 18.95  |
| 2118635  | NHD-0220DZ-FL-YBW       | 20 x 2                | 5 x 8             | 4-bit or 8-bit | 5.0 @ 1.5                 | Blue-Yellow/Green    | 4.6 x 1.5 x 0.4               | 3.3 x 0.7                 | 17.95   | 16.95  | 15.95  |
| 2118643  | NHD-0420DZ-FL-YBW       | 20 x 4                | 5 x 8             | 4-bit or 8-bit | 5.0 @ 3.5                 | Blue-Yellow/Green    | 3.9 x 2.4 x 0.6               | 3.0 x 1.0                 | 21.95   | 20.49  | 18.95  |
| 2118694  | NHD-12864AZ-FSW-GBW-VZ  | 128 x 64              | 128 x 64          | 8-bit          | 5.0 @ 3.5                 | Blue-White           | 3.7 x 2.8 x 0.5               | 2.8 x 1.6                 | 25.95   | 24.95  | 23.95  |
| 2118707  | NHD-24064CZ-FSW-GBW-VZ  | 240 x 64              | 240 x 64          | 8-bit          | 5.0 @ 7.0                 | Blue-White           | 4.6 x 1.8 x 0.5               | 3.8 x 1.2                 | 49.95   | 48.95  | 47.95  |

Additional Parallel LCD Displays on page 37



## TFT LCD Displays

★ Web Code: GCG

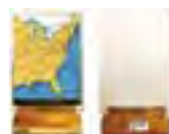
Newhaven Display provides digital TFT LCDs with the industry's best performance and features. Our TFT's include the following sizes: 1.8" 2.4" 3.5" 4.3" and 5.7".

### Features Include:

- High brightness and contrast
- Bright LED backlights
- Wide operating temperature
- 3.5" and 5.7" in Landscape mode
- Fast response time
- Wide viewing angles
- QVGA and VGA
- RoHS Compliant



2118715



2118723



2118731



2118740



2118758

**NEW**  
MARKED IN PINK

| Part No. | Mfr. Part No.            | Pixels<br>(Portrait Mode) | Diagonal<br>View | Input Data<br>(Parallel) | Input Voltage<br>(V @ mA) | Built-In<br>Controller | Module Size<br>(W" x H" x D") | Display Size<br>(W" x H") | Pricing |         |         |
|----------|--------------------------|---------------------------|------------------|--------------------------|---------------------------|------------------------|-------------------------------|---------------------------|---------|---------|---------|
|          |                          |                           |                  |                          |                           |                        |                               |                           | 1       | 5       | 25      |
| 2118715  | NHD-1.8-128160ZF-CTXL#   | 128 x 160                 | 1.8"             | 8-bit                    | 2.8 @ 25.5                | IL9163                 | 1.4 x 1.9 x 0.10              | 1.10 x 1.40               | \$17.95 | \$16.95 | \$15.95 |
| 2118723  | NHD-2.4-240320SF-CTX#    | 240 x 320                 | 2.4"             | 8-bit or 16-bit          | 2.8 @ 7                   | IL9328                 | 1.7 x 2.4 x 0.10              | 1.50 x 1.90               | 29.95   | 27.95   | 25.95   |
| 2118731  | NHD-3.5-320240MF-ATXL#-1 | 320 x 240                 | 3.5"             | 24-bit                   | 3.3 @ 8.6                 | —                      | 3.0 x 2.5 x 0.11              | 2.80 x 2.10               | 33.95   | 31.95   | 29.95   |
| 2118740  | NHD-4.3-480272MF-ATXL#-T | 480 x 272                 | 4.3"             | 24-bit                   | 3.3 @ 32                  | —                      | 4.2 x 2.7 x 0.15              | 3.70 x 2.10               | 48.95   | 45.95   | 42.95   |
| 2118758  | NHD-5.7-640480WF-CTXL#-T | 640 x 480                 | 5.7"             | 24-bit                   | 3.3 @ 190                 | SSD1963                | 4.9 x 3.9 x 0.15              | 4.50 x 3.40               | 139.95  | 134.95  | 129.95  |

\* Landscape mode

Complete section of Displays on pages 37-38

## Books on Basic Electronics, Digital Electronics & Communication Electronics

### Seeing & Doing Together for a Meaningful Learning Experience!

These three books explain electronic fundamentals using easy-to-read, easy-to-understand explanations coupled with detailed illustrations and practical applications.

#### Basic Electronics by Gene McWhorter & Alvis J. Evans

- Emphasis on using electronics circuits to amplify, transmit, receive, and detect signals
- Full-scope coverage of electronics in 11 chapters
- Contains worked-out examples, quizzes, and problem sets at end of each chapter

#### Basic Digital Electronics: Explains Digital Systems Functions and How Digital Circuits are Used to Build Them by Alvis J. Evans

- Thoroughly explains the difference between analog and digital systems
- End-of-chapter quizzes and problem sets reinforce learning
- Includes: Worked-out examples and detailed illustrations within text

#### Basic Communications Electronics by Jack Hudson & Jerry Luecke

- Emphasis on semiconductor devices and integrated circuits (ICs)
- End-of-chapter quizzes and problem sets reinforce learning
- For anyone who wants to understand analog electronics and wireless communications
- Includes: Worked-out examples and detailed illustrations within text



2112794



2112807



2112815

**NEW**  
MARKED IN PINK

★ Web Code: BKS

| Part No. | Description  | 1       | 5       |
|----------|--|---------|---------|
| 2112794  | Basic Electronics, ISBN 0945053223, 224 pages                | \$21.95 | \$19.95 |
| 2112807  | Basic Digital Electronics, ISBN 0945053231, 192 pages        | 21.95   | 19.95   |
| 2112815  | Basic Communications Electronics, ISBN 094505324X, 224 pages | 21.95   | 19.95   |

More Books on page 196

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above



## USB 3.0 4-Port Hub & 2-Port Express Card

Expand a single USB port into four so that there are more ports available to connect devices to a host system. The PCI Express (PCIe) Computer expansion card is designed as an expansion card interface for add-in boards.

- SuperSpeed with 5 Gbps data transfer rate
- Backwards compatible with USB 2.0 and lower
- System Support: Windows® XP, Vista, 7; Mac® OS 10.3 or higher
- Hot syncing

| Part No. | Description                        | 1       | 10      |
|----------|------------------------------------|---------|---------|
| 2119646  | USB 3.0 4-Port Hub                 | \$69.95 | \$59.95 |
| 2119638  | USB 3.0 2-Port Express PCMCIA Card | 39.95   | 32.49   |

Complete selection of USB Hubs on pages 184-185



## USB Wireless Audio Adapter

Wirelessly transmit music from your PC or Notebook to any room or directly to your headphones. Instant wireless audio system in minutes!

- No more wires or cables to connect
- Transmitter distance of 135 ft.
- Proprietary 2.4GHz wireless solution
- Easy system expansion with stereo sound support
- Supports Windows® 2000, XP, and Vista
- Plug and play, quick and convenient use, no driver/software installation required

| Part No. | Mfr. Part No. | Description                       | 1       | 5       |
|----------|---------------|-----------------------------------|---------|---------|
| 2120882  | WA2200        | Wireless Audio Adapter 2.4 GHz .. | \$49.95 | \$44.95 |

More USB Adapters on page 185



## 10-Component 411-Piece Screw Kit

The perfect kit containing an assortment of the most common PC screws, washers, and caps used for building, repairing, and maintaining computer systems.

- 20 rubber washers
- 50 #6.5 x 4 to M3 metal jackscrews
- 20 rubber rivet washers
- 50 #6-32x 4mm Philips screws
- 50 case fan mounting screws F5 x 12 TP3
- 20 #6 x 8 tool-less screws
- 100 2.54mm jumper caps
- 50 3 x 6 CD Rom screws
- 50 #6-32x 6" Philips screws
- 1 precision Philips screwdriver

| Part No. | Description         | 1       | 5       |
|----------|---------------------|---------|---------|
| 2120891  | 411-Piece Screw Kit | \$19.95 | \$17.95 |

More Hardware on pages 107-109

## DigiView 100MHz Digital Logic Analyzer

The DV-3100 analyzer allows you to display digital circuit signals allowing you to precisely observe the operation of your digital system.

- 18-channels @ 100 MHz (10 ns)
- Eliminates resolution vs. depth tradeoffs
- Flexible, cascaded sequencers (4 x 4)
- Automatic real-time hardware compression (tri-mode)
- +0.5 to +2.8V adjustable threshold
- USB 2.0 with USB 1.1 compatibility
- 64-bit ready
- Ground current protection
- All cables, 20-clips and software included

| Part No. | Description     | 1        | 5        |
|----------|-----------------|----------|----------|
| 2115776  | DigiView DV3100 | \$499.95 | \$469.95 |

More Testers on pages 153-154



## Green Fan Cord

Designed to recognize a system's optimal operating temperature and react by turning the cooling fans on/off as the system's heating demands require.

- Wire: SPT1 105°C, 300V, Black
- Plug: NEMA 1-15P
- Length: 24" (610mm)

| Part No. | Description         | 1       | 10      |
|----------|---------------------|---------|---------|
| 2117245  | HP75-24P (45° Plug) | \$11.95 | \$10.95 |

Complete selection of Fan Cords on page 119

## BELKIN CAT5e & CAT6 Cables & Adapters



Belkin Cables & Adapters are designed for quick, snap-in installation and are universally wired for optimized, seamless interfacing with other equipment, cords, and cables. Belkin's CAT 5E/6 Snagless Crossover Patch Cables make it easy to connect computers on your Local Area Network (LAN). These cables are designed to connect hub-to-hub, PC-to-PC, or Mac-to-Mac computers.

- Extra security
- 50-micron, gold-plated connectors
- Clean and clear transmissions

| Part No. | Mfr. Part No. | Description                                 | 1      | 5      |
|----------|---------------|---|--------|--------|
| 2115573  | 354003X       | CAT5e Modular Networking Cable, UTP, Red 3' | \$2.49 | \$2.25 |
| 2115581  | 360001        | CAT6 Patch Cable, Gray, 1'                  | 2.25   | 1.95   |
| 2115590  | 362001        | CAT6 Patch Cable, Yellow, 1'                | 2.25   | 1.95   |
| 2115602  | 364001        | CAT6 Patch Cable, Red, 1'                   | 2.25   | 1.95   |

Belkin's External Serial ATA Cables (eSATA Cables) provide a fast and reliable solution for transferring valuable digital data, improving performance for internal PC's and external storage.

- Connect to external hard drive, PVR/DVR, or set-top box
- Up to six times faster than USB2.0 and 1394 external storage solutions

| Part No. | Mfr. Part No.  | Description   | 1       | 10      |
|----------|----------------|---|---------|---------|
| 2115653  | F2N1192-06-W   | eSATA Cable   | \$11.95 | \$10.95 |
| 2115645  | F2N1192T03-APL | eSATA Cable   | 11.95   | 10.95   |
| 2115629  | F8V210TT       | RCA Female-to-Female adapter, Silver                  | .55     | .49     |
| 2115637  | F8V211TT       | Adapter 3.5" Stereo Male to 1/4" Stereo Female, Black | .69     | .59     |
| 2115611  | AV22400B-12    | Cable HDMI Male to DVI Male, 12'                      | 14.95   | 13.49   |

More Cables & Adapters on pages 185-187

## valleant / CEEBEK Hi-Fi Audio Kits

Challenge your solder skills with these audio kits. Build your own Voice Recorder or an MP3 player with audio outputs or an Audio Analyzer with LCD that will give your audio gear a high-tech look.

2119734: • Pre-built, Record/Play a 20 second message

2120815: • Panel mountable 5" x 2.5" LCD

| Part No. | Description                           | Difficulty | 1       | 5       |
|----------|---------------------------------------|------------|---------|---------|
| 2119734  | 20 sec. Voice Recorder, pre-assembled | —          | \$14.95 | \$13.49 |
| 2120815  | Audio Analyzer, 123 solder pts        | Advanced   | 74.95   | 69.95   |
| 2120823  | MP3 Player Project, 230 solder points | Advanced   | 89.95   | 84.95   |

Audio Kits on page 190

## 80-Watt High-Power Stained Glass Soldering Station

An 80W temperature controlled soldering station adjustable between 250 and 500°C, suitable for hobby, technician and production use.

- Fully adjustable temperature control
- 80W heating element for fast heat-up and quick temperature recovery
- Zero voltage switching protects sensitive devices from damage caused by transient voltage spikes
- Burn-resistant soldering iron cable
- Ideal for lead-free soldering
- LED indication when temperature setting is achieved
- Comfortable rubber grip
- Supplied complete with instructions, fitted UK 13A plug, stand, cleaning mesh, conical and 6mm chisel soldering tips and key for tip changing
- Replacement soldering iron and tips available separately
- Xytronic type LT-80
- Soldering stations, Xytronic, soldering equipment, 80W temperature controlled soldering station

| Part No. | Mfr. Part No. | Description | 1       | 5       |
|----------|---------------|-------------|---------|---------|
| 2118467  | LT-80         | 80 watt     | \$49.95 | \$44.95 |

Additional Soldering Stations on pages 166-167





## Prototyping Boards

Soldering doesn't have to be messy or difficult. SchmartBoard™ Prototyping Boards take the guess work out of designing circuit boards for surface mount or through hole components. These prototyping boards are easy to solder, no experience necessary and can accommodate various surface mount discrete components as well as integrated circuits.

- Strategically placed grounding holes and male header pad patterns for bread boarding and prototyping applications
- Utilizes EZ technology to assure fast, easy, and flawless soldering
- For more details please see page 177 or [www.Jameco.com](http://www.Jameco.com) for spec. sheets

| Part No. | Mfr. Part No. | Description                                 | 1       | 5       |
|----------|---------------|---|---------|---------|
| 2116912  | 201-0302-01   | Thru hole board, 4" x 4" .....              | \$14.95 | \$13.95 |
| 2116980  | 202-0034-01   | Discrete surface mount board, 2" x 2" ..... | 9.95    | 8.95    |
| 2116947  | 202-0007-01   | SO/SOP board, 2" x 2" .....                 | 9.95    | 8.95    |
| 2116955  | 202-0009-02   | QFP board, 2" x 2" .....                    | 9.95    | 8.95    |
| 2116971  | 202-0017-01   | CHIPSCALE QFN board, 2" x 2" .....          | 9.95    | 8.95    |

Additional Prototyping Boards on pages 175-178

## Photofabrication, Exposure & Economy Etching Kit

Jameco welcomes MG Chemicals to our broad supplier line up. MG Chemicals is a full line supplier of innovative and legacy chemical solutions. The kits below allow you to produce professional printed circuit boards quickly and at a lower cost than a professional design house.

### 2121017: Photofabrication kit

- 3 single sided presensitized PCB boards (3" x 5", 4" x 6" and 6" x 6")
- Instruction sheet
- Chemicals: developer and ferric chloride
- Foam brushes, development tray, rubber gloves

### 2121025: Exposure kit

- Fluorescent light fixture w/ stand
- Daylight fluorescent bulb
- Acrylic weight for artwork
- Instruction sheet

### 2121033: Economy Etching kit

- 5 liter etching tank
- Instruction sheet
- Air pump and tubing, spraying unit, vinyl gloves

| Part No. | Description                      | 1       | 5       |
|----------|----------------------------------|---------|---------|
| 2121017  | 416-K photofabrication kit ..... | \$69.95 | \$64.95 |
| 2121025  | 416-X exposure kit .....         | 69.95   | 64.95   |
| 2121033  | 416-ES economy etching kit ..... | 69.95   | 64.95   |

More Prototyping Chemicals on pages 175-176



## NiZn Rechargeable Batteries

Finally, a rechargeable battery that can exceed the voltage of common single use Alkaline batteries. The PowerGenix battery has up to 33% more energy density over standard rechargeable batteries. Typical rechargeable batteries only produce 1.20 Volts, while these environmental-friendly, Nickel-Zinc batteries produce 1.60 Volts! NiZn technology is perfectly suited for high-tech devices like MP3 players, digital cameras, toys and LED lights.

### 2115856: 1.50 Hour NiZn Quick Charger

### 2115821: 3-5 Hour NiZn Fast Charger

- Charges 1-4 AA NiZn rechargeable batteries at a time
- Universal voltage for ease-of-use while traveling (100-240VAC, 50/60Hz)
- Includes: 4 AA NiZn Batteries
- LED lights indicate charging status

### 2115848: AA NiZn 8-Pack; 2115830: AA NiZn 4-Pack

- Made for high-drain applications
- Can only be charged with a NiZn charger
- 1.60V - equivalent to an Alkaline battery (~1560mAh)
- 30% more voltage than NiMH batteries

| Part No. | Description                          | 1       | 5       |
|----------|--------------------------------------|---------|---------|
| 2115856  | NiZn Quick Charger, 1.50 Hours ..... | \$34.95 | \$31.95 |
| 2115821  | NiZn Fast Charger, 3-5 Hours .....   | 24.95   | 22.95   |
| 2115848  | NiZn AA 8 Battery Pack .....         | 24.95   | 22.95   |
| 2115830  | NiZn AA 4 Battery Pack .....         | 14.95   | 13.49   |

Complete selection of Batteries on pages 147-149



## Xbee Wireless RF Modules

The Digi Xbee 802.15.4 modules are easy-to-use, cost-effective RF devices that provide two friendly modes of communication. Use for remote controlled robots, wireless data acquisition, remote signal beacons, remote industrial control, lighting control or keyless entry.

- Point-to-point, point-to-PC, or mesh network
- Cross compatible w/ other Xbee 802.15.4 modules
- 2.4GHz operating frequency
- Six 10-bit ADC inputs, 8 digital I/O
- 1200bps - 250kbps RF data rate



| Part No. | Description   | 1       | 5       |
|----------|---|---------|---------|
| 2113375  | 1mW, up to 300 ft. outdoor range (line of sight) ..                               | \$26.95 | \$24.95 |
| 2113391  | 60mW, up to 1 mile outdoor range (line of sight) ..                               | 46.95   | 43.95   |
| 2113421  | USB adapter board & interface, 0.1" spacing (cable required, Jameco P/N: 2110721) | 27.95   | 25.95   |
| 2113412  | Kit form, adapter board, 0.1" spacing   | 3.49    | 3.25    |

More Parallax Modules on pages 194 & 195



## DataBridge™ Wireless I/O Modules

Starman Electric introduces the DataBridge; a new wireless module designed to make point-to-point wireless control and data acquisition easier than ever. These modules offer a simple and reliable bridging of analog, digital, and Serial UART signals between two points. Two modules automatically link together, requiring no software configuration or programming.

- Wireless cable replacement, remote data measurement, low latency wireless analog or digital control
- 6 digital I/O, 2 analog I/O, 1 UART Tx/Rx
- QPSK/DSSS frequency modulation 2119970
- 200 samples/second
- 2.4GHz frequency hopping over 16 channels
- FCC, Canadian, ETSI certified

| Part No. | Description   | 1       | 5       |
|----------|---|---------|---------|
| 2119961  | 1mW, internal ceramic antenna, up to 0.625 mi range (line of sight) | \$86.95 | \$79.95 |
| 2119970  | 100mW, SMA connector, up to 2.5 mi range (line of sight)            | 99.95   | 94.95   |



## Flexible Prototyping System

ProtoFlex has devised a flexible, self-adhesive adapter system that makes it easier to integrate SOIC, TSSOP, SOT, D-Sub, and other small components into your prototyping design. The precut adapters can be applied to virtually any surface.

- 3 mil thick design keeps components low profile
- Unique, dual, asymmetric hole pattern for multiple connection points
- Multiple silk-screen blocks for reference and pin identification
- Large pads allow for easy surface mounting of wires

| Part No. | Description  | 1       | 5       |
|----------|--|---------|---------|
| 2121201  | SOIC, 5 ea. of 8, 14, 16, and 20-pin adapters .....                                  | \$59.95 | \$56.95 |
| 2121210  | TSSOP/SSOP, 5 ea. of 8, 14, 16, and 20-pin adapters, .65mm pitch .....               | 59.95   | 56.95   |
| 2121228  | Variety of common SOT, SC-70, DD-PAK, 1206, and other SMT layouts .....              | 59.95   | 56.95   |
| 2121236  | IDC ribbon, 4 ea. of 10, 20, and 34-pin configurations, 2.54mm pitch .....           | 59.95   | 56.95   |
| 2121244  | D-Sub interface, 4 ea. 9, 15, and 25-pin configurations, 2.74mm pitch .....          | 59.95   | 56.95   |
| 2121252  | Kapton insulators, 3 mil, for electrical and thermal insulation, pre-cut .....       | 19.95   | 18.95   |
| 2121261  | Protoboard alignment tool, board must have 1.06mm dia. holes .....                   | 59.95   | 54.95   |
| 2121279  | Tool accessory kit, 4 alignment pins, 4 screws, foam pad, case .....                 | 24.95   | 22.95   |
| 2121287  | 4 replacement pins for alignment tool, .13mm pin dia., fits 1.06mm board holes ..... | 1.29    | 1.15    |

More Prototyping products on pages 175-178

\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above



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VIP Code

Or Current Resident

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## Great Products. Awesome Prices. Reach for Jameco First!

### \*\*\* FEATURED PRODUCTS \*\*\*



iLoad Mini

Software  
Included



iLoad TR

Software  
Included



iLoad Pro

Software  
Included



Hot NEW  
Products!

\*Web Code: CLL



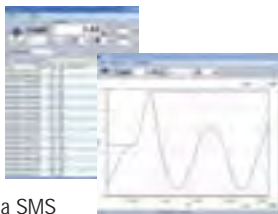
NEW  
MARKED IN PINK

Loadstar Sensors' award winning capacitive load cells offer unmatched ease of use in a low profile, rugged and integrated package. Our load cell offers USB output without the need for any special signal conditioning equipment. These sensors are excellent for R & D labs, universities and test facilities which need to quickly measure loads and forces, log data and visualize the data as a force vs. time plot.

- All products made in the USA
- CE, UL & FCC Approved
- USB Load Cell software with logging/plotting features included

#### LoadVUE Pro 1000 USB Load Cell Software

- View force/load in Pounds, Kilograms, Newtons or Ounces
- Log data to Excel friendly file at user selected intervals
- Up to 150 samples per second
- Plot data as force vs. time graph
- Periodically send force data to email address or mobile phone via SMS



| Part No. | Description            | Price    |
|----------|------------------------|----------|
| 2120903  | 10 lb. iLoad mini kit  | \$289.95 |
| 2120911  | 50 lb. iLoad mini kit  | 289.95   |
| 2120920  | 100 lb. iLoad mini kit | 289.95   |
| 2120938  | 200 lb. iLoad mini kit | 289.95   |
| 2120946  | 5 lb. iLoad TR kit     | 389.95   |
| 2120954  | 10 lb. iLoad TR kit    | 389.95   |
| 2120962  | 50 lb. iLoad TR kit    | 389.95   |
| 2120971  | 100 lb. iLoad Pro kit  | 489.95   |
| 2120989  | 250 lb. iLoad Pro kit  | 489.95   |
| 2120997  | 500 lb. iLoad Pro kit  | 489.95   |
| 2121009  | 1000 lb. iLoad Pro kit | 489.95   |

### Contact Information

Order Desk 24/7, 365 Days a Year

Phone: 1-800-831-4242

Fax: 1-800-237-6948

E-mail: [Sales@Jameco.com](mailto:Sales@Jameco.com)

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E-mail: [Tech@Jameco.com](mailto:Tech@Jameco.com)

Customer Service

Phone: 1-800-536-4316

E-mail: [CustService@Jameco.com](mailto:CustService@Jameco.com)

Credit Department

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Fax: 650-802-1583

E-mail: [Credit@Jameco.com](mailto:Credit@Jameco.com)

International Order Desk

Phone: 650-592-8097

Fax: 650-592-2503

E-mail: [International@Jameco.com](mailto:International@Jameco.com)

The Jameco RobotStore

Website: [www.RobotStore.com](http://www.RobotStore.com)

Feedback E-mail:

[Feedback@Jameco.com](mailto:Feedback@Jameco.com)

## SUNON

### DC Brushless Tubeaxial Fans

Jameco has just added more Sunon Fans to its robust offering in an attempt to satisfy our customer's requests for various applications, sizes and voltages. For Jameco's entire offering of fans please see pages 115-119 or visit [www.Jameco.com](http://www.Jameco.com).

- Available in 2 wire for easy application or in 3 wire for speed sensor applications
- All fans are Green/ROHS compliant
- Equipped with a Dual Ball Bearing system that allows for less friction and longer life
- Sizes are industry standard ranging from 30mm to 120mm

| Part No. | Mfg Part No.            | Description                            | 1       | 10      |
|----------|-------------------------|--|---------|---------|
| 2120031  | GM0503PEV1-8N.GN        | 30 x 30 x 10 mm, 5V, 5.5 CFM, 2 wire   | \$11.95 | \$10.95 |
| 2120057  | KD0504PKB2 (2).GN       | 40 x 40 x 20 mm, 5V, 7.7 CFM 2 wire    | 7.95    | 6.95    |
| 2120065  | KD1204PKB2 (2).GN       | 40 x 40 x 20 mm, 12V, 7.7 CFM 2 wire   | 6.95    | 6.25    |
| 2120073  | KD1206PKB2 (2).F.GN     | 60 x 60 x 20 mm, 12V, 19 CFM 3 wire    | 7.95    | 6.95    |
| 2120081  | KDE1206PTV3.13.MS.AF.GN | 60 x 60 x 25 mm, 12V, 16 CFM 3 wire    | 7.95    | 6.95    |
| 2120129  | PMD2412PTB3-A (2).GN    | 120 x 120 x 25 mm, 24V, 120 CFM 2 wire | 12.95   | 11.49   |
| 2120137  | PMD4809PMB3-A (2).GN    | 92 x 92 x 38 mm, 48V, 91.7 CFM 2 wire  | 15.95   | 14.49   |
| 2120145  | PMD4812PMB1-A (2).GN    | 120 x 120 x 38 mm, 48V, 190 CFM 2 wire | 17.95   | 15.95   |

Super  
Cool!

\*Web Code: SNN

NEW  
MARKED IN PINK



2120031



2120129

Sunon is the global leader  
in Thermal Solutions

Complete selection of Fans on pages 116-120